THE DEVELOPMENT OF BRITISH ELECTRICITY TRADING AND TRANSMISSION ARRANGEMENTS (BETTA)

OFGEM CONSULTATION PAPER MAY 2002

RESPONSE FROM SCOTTISHPOWER

- 1 Summary
- 1.1 ScottishPower's position on the development of GB trading and transmission arrangements remains unchanged. However, the direction of this DTI/Ofgem consultation paper causes considerable concern.
- 1.2 Our position may be summarised as follows:
 - ScottishPower will welcome a complete package of reform in Scotland that includes BETTA, the ending of the restructuring contracts, and satisfactory transmission access and charging arrangements.
 - The implementation of BETTA must create a level playing field for competition and therefore must involve the dismantling of the vesting arrangements in Scotland, including the restructuring contracts.
 - Transmission access and charging arrangements are crucial. These must be fair to existing players and consistent with energy policy objectives including the expansion of renewables in Scotland.
- 1.3 However, progress in some areas and lack of progress in others since the last consultation has increased our concern that such a package will, not be delivered along with BETTA and that wholesale trading arrangements will not be developed for GB which are satisfactory for all parties and provide a sound framework for competitive and sustainable energy supplies into the future,
- 1.4 Our main concerns arising from the paper are:
 - the lack of progress on the restructuring contracts;
 - the GB system operator model proposed by Ofgem which goes beyond those functions which are essential for the efficient operation of a GB market and introduces complex interface and contractual arrangements which may compromise system security and safety;
 - the mechanism for progressing the position on transmission access and losses. The largest impact of changes in these areas would be felt in Scotland via the extension of arrangements to Scotland under BETTA. Yet the forum in which the issues are being taken forward is concerned only with the England and Wales position.

This **response** sets out these and other concerns in more detail.

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We are working with Government and Ofgem and fully participating in the working groups with the aim of developing a package which creates a level playing field for all generators and suppliers across GB. A significant change in direction will however be required in our view for an acceptable and workable package to be delivered for implementation in April 2004.

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2 **Introduction**

This paper sets out ScottishPower's response to the joint Ofgem/DTI paper published in May 2002 reporting on the previous consultation on British Electricity Trading and Transmission Arrangements (BETTA), giving some conclusions and putting forward further issues for consultation. A separate response has been submitted to the DTI an the draft Regulatory Impact Assessment

- 2.2 ScottishPower welcomes the vision of the BETTA trading arrangements with the prospect of:
 - . being able to trade on commercial **terms** with **counterparties** anywhere in **GB** in relation **to** the purchase and **sale** of wholesale electricity;
 - . having equal access to the balancing mechanism and other balancing arrangements (without the onerous host obligations of the current arrangements);
 - being subject to the same transmission access, charging and losses arrangements as our competitors, so long as these are fair to existing players especially in Scotland.
- We also welcome the decision to treat the Scotland-England interconnector in the same way as all other transmission assets within the total GB system and the ending of the discriminatory arrangements whereby Scottish generators carry all the costs of providing the benefits of generation competition to customers in England and Wales.
- We are glad to see that Ofgem accepts (Annex 2) that retail prices in Scotland, after allowing for charging differences in network costs, have moved broadly in line with those in England and Wales.
- 2.5 Our **welcome for** the broad vision of **the BETTA** trading arrangements is tempered by concern in a number of **areas**, including:
 - the restructuring contracts:
 - the system **operator/transmission** owner split;
 - . the transmission access charging and losses arrangements;
 - the process for ensuring adequate scrutiny from a GB perspective of the arrangements which will be implemented at the start of BETTA:
 - rhe ability to meet the target implementation date.

- 3 Restructuring **Contracts**
- 3.1 ScottishPower remains firmly of the view that BETTA must include effective measures to deal with the restructuring contracts, which, as Ofgem/DTI recognise, underpin the arrangements put in place at Vesting.
- 3.2 **To** that extent we are not satisfied with **Ofgem/DTI's** proposals for 'appropriate co**ordination' of BETTA with** a **"parallel"** initiative on **the restructuring** contracts (see paragraph 3.8 of the May paper). We would reiterate, in that regard, the statements made in **our** response to the **December 2001** consultation paper, in **particular**:

We fully endorse Ofgem's assessment that "the creation of a more competitive framework in Scotland requires fundamental change to the arrangements put in place at Vesting." In particular, we agree that tie circumstances that dictated those arrangements have materially changed and char, as Ofgem has previously pointed out, they are now a barrier to effective competition in Scotland.

As **Ofgem** points out in the December paper, the restructuring contracts underpin the Vesting arrangements. In **our assessment**, it is essential therefore that any dismantling of the vesting arrangements **carried** out as **part** of **BETTA** involves, at the same time, the termination of any restructuring contracts that would otherwise continue beyond the **BETTA** implementation date.

3.3 ScottishPower's continued support for BETTA is, as we have made clear, dependent in part on the inclusion of such measures as a core element of the BETTA package. We would call upon Ofgem and DTI to give a firm and unambiguous commitment to work constructively with US and other relevant stakeholders on that basis.

- 4 Allocation of Functions between the System Operator and Transmission Owners
- 4.1 ScottishPower believes that initial conclusions reached by Ofgem in the May consultation on the allocation of functions between the system operator and the transmission owners are not supported either by the primary objectives of BETTA or by the criteria laid out by Ofgem in allocating functions between the system operator and the transmission owner.
- 4.2 **Ofgem has proposed various** criteria **in** the allocation of functions giving **particular** weight **to** two criteria:
 - (la) functions that directly affect **market** participants, and which cannot be **easily codified** and effectively monitored to ensure that **no** bias is **being exercised**, should be separated from those **with market affiliations**;
 - (1b) access to confidential data, which may reveal the intentions of participants in market-based activities, should be available only to those that do not have affiliated interests in those same market-based activities.
- 4.3 These requirements are met in all three of the models of system operator/transmission owner split including the thin model where the system operator directs those issues responsible for the real time and the real time integrity of the electricity network.
- 4.4 However, **Ofgem appears** to have **placed** little weight on its remaining criteria, including:
 - it is **practical**, **efficient** and economic to undertake **the** various functions of the system **operator** separately from the functions of the separate transmission owners;
 - the one-off costs of effecting the changes should be as low as possible, taking into account both central costs and participants' costs;
 - there is the ability to ensure effective asset management, including **safety and** environmental issues to meet both shorter and longer **term** obligations;

and the criterion that **Ofgem** explicitly **introduced** in the May consultation **(para A3.38)** that:

- functions continue to be carried out by those parties who are currently responsible for them unless there is a requirement to reallocate responsibility in order to meet the objectives of **BETTA**.
- These criteria, together with the stated objective of **BETTA** to **introduce** to Scottish customers the **benefits** of the wholesale **competition** now established in England and Wales, clearly lead to the thin model of system operator as being the one that **best** meets the objectives and criterion.

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4.6 Broadly speaking the role of system operator should be limited to those real time operations needed to facilitate the wholesale market and to maintain the integrity of the electricity network, while the transmission owner would plan, operate and maintain the grid, provide connections to new customers and through appropriate connection agreements recover the costs of owning and operating transmission assets.

- 4.7 The thin system **operator** model is pragmatic **and** achieves **Ofgem's** stated objectives. It **also** significantly **minimises** risks in its design and implementation. It provides a model **which allows** the transmission owners to **maintain** the value of their transmission businesses, and to grow and develop it in response to **all stakeholders** needs, including for **example** customers seeking generator connections, and the requirements of the governments and Scottish Executive in building networks which **are** suitable for the growth **of renewables needed** to **meet the UK's** international obligations.
- 4.8 The rugged nature of much if the Scottish terrain combined with adverse weather has impacted supplies to Scottish customers on several occasions over the past few years. Whilst 'steady state' trading arrangements can be controlled nationally, the integrated nature of Scottish Transmission and Distribution support the retention of a thin model, allowing local configuration of the network by the transmission owner during times of stress. We believe our customers value the local integrated network control and emergency management systems which minimised disruption during recent severe weather events and which were recently commended by DTI. Long lines of communication to a remote system operator in perhaps the South of England, to switch lines in Scotland, particularly under storm conditions, will impact restoration times and degrade emergency response, The 132kV network in Scotland is a particular instance of the close integration between transmission and distribution functions in ensuring supplies to SW Scotland are restored as quickly as possible.
- 4.9 A number of the responses to the December consultation noted that the proposed timescale for implementation in April 2004 was ambitious. Significant slippage has already occurred since the December consultation for example it was originally suggested that the consultation that appeared in May would appear in February. No adjustment has been made to the proposed timescale for implementation. It is therefore the pragmatic, and the least risk choice to implement a thin system operator which will be consistent with the goals of a UK market.
- 4.10 Ofgem proposes making the transmission owners responsible far the planning and delivery of new investments, as well as the maintenance of assets. ScottishPower fully supports this allocation of functions. This will promote system security and allow the full benefits from integrated planning of both load and non load related investment. Additionally, in the case of the two Scottish Transmission Licensees allow for the benefits of transmission and distribution co-ordination to be retained.
- 4.11. Electricity networks are a viral part of the national infrastructure, and particularly important to the development of Scotland. We strongly support the retention of investment decisions with the transmission owner, based an network integrity and customer need, and subject to regulatory review of prudence. Electricity is an

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essential pan of the Scottish economy, and decisions on appropriate infrastructure to support the economy should remain with the owners of the local network

- 4.12 The allocation of functions proposed by Ofgem fails to consider the needs of the transmission owners in carrying out the functions allocated to them by Ofgem. The new transmission owners will not succeed without appropriate direct linkages to the generators on their network as opposed to being mediated through a third party (the **system** operator). These linkages would allow transmission owners to **plan** major maintenance outages on their transmission systems at the same time as generators take their major annual outages. Such co-ordination has successfully taken place between SP Transmission (SPT) and generators on the SPT network for many years. For example, it allows necessary outages at major substations to which generators are connected to take place with minimum disruption to the generators' plans. These linkages will provide the transmission owners with the information they need to plan the development of their network. These linkages will also provide the transmission owners with the information they need to offer generators new connections which are appropriate to the generators' needs, SP Transmission notes that new **connection** offers to generators often change from that requested by the generator at the initial approach. Through dialogue between the companies more suitable and cost effective connection solutions emerge. Such an approach would be consistent through recognising that generators seeking connection to the distribution systems in Scotland would in any event deal with the companies directly. Since many of the new connections are at the cusp af the distribution and transmission systems such an approach will be the most consistent as well as the most effective.
- 4.13 In relation to the specific details of the allocation of functions proposed by Ofgem, ScottishPower would note the following:
 - It is appropriate for the system operator to be responsible for the purchase and call-off of balancing services.
 - Transmission outage plans and regional outage plans should be developed by the transmission owner, with a co-ordination, rather than approval, role being played by the system operator.
 - The planning and offering of new **connections** should remain with the transmission **operators**.
- 4.14 It is appropriate for the system operator to maintain a co-ordination role when developments on one system impinge upon another. In many respects this is a development of the existing British Grid Systems Agreement processes. ScottishPower notes Ofgem's concerns regarding assurance that new connections are managed in an independent and non discriminatory process, and supports these aims. These issues will exist not only with the transmission owners, but also with the distribution operators throughout Great Britain. These concerns can be tackled both by the application of competition law through licence conditions and by a more transparent methodology of publishing applications for connection to the transmission system. In many parts of the United States (for example in the PJM connection), information about connections is readily available to all parties on the web. This avoids suggestions that the network operator may favour an affiliated generation business. Additionally, it should be noted that information about

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connection **applications** is often **available** both through the planning **process**.

4.15 It is therefore appropriate that the transmission **owners should maintain** connection agreements with the users on their **network**, and be responsible for **proposing** and **collecting** tariffs for connections and use of system. **Appropriate** charges **would** be made between the **transmission operators** in respect of either use of each **other** systems, or in respect of any special network **developments** that had taken **place** in furtherance of government **policy** – such as **that** needed **to** accommodate a rapid expansion of renewable, Balancing use of system **payments** would **however** be paid by the users to the system **operator**.

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- 5 Appointment of a GB System Operator
- 5.1 ScottishPower believes that the appointment and governance of the new system operator is crucial for confidence in the open and transparent working of the new BETTA market.
- The role of the system operator is crucial to the market. The system operator has a unique role in holding contracts with market players, These contracts are exercisable by the system operator alone in operational timescales, with the additional privileged right to exercise of contracts in the post-gate closure period. The structure of these contracts is such that only limited aggregate information about them is made known to the market. Such a privileged role in the market place requires appropriate arrangements for the appointment and governance of this party, and continued and focussed regulatory scrutiny.
- However the consultation paper is largely silent about these issues except to note that 'appropriate incentives and licence conditions on transmission owners and the GB system operator and the application of competition law will be capable of regulating effectively the ability of the GB system operator to favour any affiliated transmission owner".
- The activities of the transmission **owners** are one of the **drivers** for the contractual relationships proposed by **Ofgem**. However it is doubtful whether a system **operator** having **an internal** relationship with one transmission owner and **external contractual** relationships with the other two **will** lead to even handed treatment **between** transmission owners by the system operator.
- 5.5 **ScottishPower** notes that **there** was significant **support** in **the** responses **to** the December consultation for an independent system operator. Only one respondent promoted the ownership of the system **operator** in the same group as one of the **transmission** owners. This one respondent to the December consultation who **advocated** an integrated transmission system operator model **highlighted** a number of perceived inefficiencies that could arise as a result of **separating** system operator and transmission owner functions. These included for example:
 - the widespread use of short term plant ratings;
 - flexible outage arrangements including live line working, short emergency return to service and accelerated maintenance;
 - the use of real time monitoring of transmission plant.
- 5.6 Such proposals highlight the ability of a system operator and associated transmission owner to manipulate savings in a non-transparent manner and the implication that this sort of efficiency will be realised on one network but not on the other two.
- 5.7 Such savings can still be achieved between a system operator who is managed independently of a transmission owner in a transparent manner by the introduction of appropriate incentive schemes between them. Separation of the system operator from all the transmission owners would therefore ensure both transparency and efficiency in that the savings would be achieved across the entire GB network.

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5.8 The governance and appointment of the **system operator** is **therefore** crucial. **Best** practice **will** be developed by reference to both developments in other **countries** and in **respect** of **other** relate4 appointments in this country.

- **5.9** Governance models which are best practice and should be thoroughly explored include:
 - the appointment of Elexon as the BSCCo for the NETA market in England, and
 - the governance of RTO West in the United States
- 5.10 Points in common between these models include that of an independent governing board. Additionally, the RTO West model provides for a trustee selection committee with the right to appoint the independent governing board. Board members must meet a conflict of interest standard and serve staggered terms. The trustee selection is such that members of the Board of Trustees include individuals possessing collectively a broad range of relevant expertise in commodities markers (including commodities trading risk management), electric bulk power transmission in the Western Interconnection, utilities management, law, finance, economics, accounting, information technology, engineering, regulation and public policy. Trustee members are selected by a wide range of stakeholders, with suitable candidates being proposed by an appropriate search firm. Meetings of the Board and Committees are open to the public.
- Finally, Ofgem's concerns about the affiliation of the transmission owner with energy businesses are understandable, if misplaced. There is no evidence to back up Ofgem's assertion that appropriate incentives, licence conditions and the application of competition law are capable of regulating the GB system operator from favouring an associated transmission owner compared to their belief that such measures are not sufficient to prevent abuse when the GB system operator has an affiliated generation interest

6 Transmission Issues

- We support the idea that the three transmission owners should implement consistent transmission access and charging arrangements that allow users access to the GB trading market without pancaking of charges. However, care must be taken when moving to such a regime to ensure that all parties are treated equitably. The paper makes a number of references to locational signals being provided by the access and charging regime. There is also a reference in the Regulatory Impact Assessment to the fact that the benefits to customers in England and Wales due to BETTA will be small because the market is far larger than the Scottish market. This leverage effect due to the relative size of the markets and the geographical distance between them will also act to exaggerate the impact of any transmission losses and charging regimes which are designed to give locational signals.
- 6.2 We are particularly concerned that systems based on zonal marginal losses or the current ICRP methodology used by NGC wilt give extreme signals to users of the Scottish transmission systems because of their reference to the large and distant load centres of the south (a situation that would apply under these methodologies even if generation and load is in balance within Scotland). While we recognise that the quest for economic efficiency may necessitate some locational signalling we would be concerned if a system based on forward estimates of the **cost** of future investment was to be implemented at a time when substantial entry of renewable generation in Scotland is anticipated. We noted with **interest**, and fully support, the comments made on behalf af Scottish Ministers at the 20 June seminar regarding the detrimental effect which Ofgem's desire for locational charging of transmission costs could have on the development of the renewable energy resources of northern The need for and the siting decisions of renewable generators are driven by considerations other than the effect on transmission investment, as indeed were the siring decisions of the pre-vesting Scottish generating plant. We note, in passing, that it would be unacceptable if the potential **impact** of locational charges on new renewable generation were to be ameliorated at the expense of the prevesting generation.
- Nor, however, do we favour a scheme **similar to** that introduced for generator connection charging in the Scottish **Hydro Electric** Transmission Limited **area. This** scheme increases the total share of transmission charges paid by generators and seems to be a departure **from Ofgem's previous policy** of encouraging shallow entry charging. We would welcome a **clear** steer **from Ofgem** regarding their current preference on the principle **of** deep or shallow entry charging.
- We **note** that development of new access arrangements for England **and** Wales has started under the governance of **the CUSC** Amendments Panel, and that NGC has initiated a thorough **review** of its transmission charging **methodologies**. However, given the **importance of** transmission issues to the users of the Scottish networks we do not believe that these fundamental reviews should be **carried out solely** from the point of view of **participants** in England and Wales. We were not reassured by the policy outlined at the **20** June seminar that **GB** consultation for **BETTA would be carried** out based on the **England** and Wales documents extant at the time. Unless the current reviews in England and Wales are suspended and **replaced** by a **GB** process under the auspices of the **BETTA** project, we believe **this** issue **could** undermine the **BETTA** process completely.

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6.5 There will be pressure for any new charging methodology to be "harmonised". It must be recognised that such harmonisation can occur at different levels, and does not mean that the charges will be the same. For example the objectives could be harmonised, with different principles applied to each network, or the principles and objectives could be harmonised but with different parameters appropriate to each network. It is appropriate that these charges should be agreed and collated by the local transmission operator.

different characteristics. For example, 132kV forms part of the transmission network in Scotland, but not in England and Wales. The topologies of the networks are different. The security standards applied to the networks are different. Any moves to harmonise charging must be carefully considered - as well as considering the position of parties connected to the 132kV networks in Scotland compared to generators attached to the 132kV networks in England and Wales.

8 Programme

- At this stage with the challenging targets of implementing BETTA by April 2004, a clear programme of work with clear responsibilities laid out in an overall framework document is urgently needed. Ofgem intend to rely on the new GB system operator, the existing transmission licence holders and central service providers to deliver appropriate system developments. This cannot be achieved without a clear statement and agreement of responsibilities between the parties.
- 8.2 Furthermore the necessary investment of many millions of pounds by these parties in **making** appropriate changes to the existing legal **contracts**, and **in specifying**, developing, **implementing** and testing systems will not take place without clear **guarantees** of cost recovery.
- **As already noted**, the timescales for implementation are challenging. **To** achieve them, two necessary preconditions are:
 - **a** clear framework and
 - an agreement on cost recovery before expenditure is incurred by the affected parties.
- In addition there have been a number of major projects of a similar scale to BETTA, for which Ofgem and/or DTI have been responsible, including the Electricity Pool in England & Wales, the opening of full supply competition in 1998, NETA, and the Utilities Act transfer schemes which for various reasons did not meet their original target implementation dares.

This **causes** additional **concern** that the target **date** of April 2004 might not be met. For this **reason** we believe that **Ofgern** should:

- evaluate and **publicise** the risks of not meeting **the** target **date**;
- develop any **necessary** contingency plans, **and**;
- a establish processes to monitor and update its progress against **plan** and **re**-evaluate its **risk** assessment if necessary.