Connection for Exit - a Power Station

1. **Example 1** - Power station is located approximately 20 km from the nearest NTS pipeline across an area with good ground conditions and level terrain. National Grid to build connection apparatus connecting to the NTS at a greenfield site and the System Extension pipeline from the NTS connection to the power station site.

   Indicative Estimated Cost details (at the time of publication)

   Connection apparatus (For the avoidance of doubt this does not include any System Extension and Reinforcement works):
   Connection Remotely Operable Valve (ROV) Installation

Conceptual design study	£30 - £50k
Detailed design & construction	£900k - £1,000k
Sub Total	**£930k - £1,050k**

   System Extension and Reinforcement works downstream of the Connection Charging Point:

Feasibility study	£100k - £400k
Detailed design & construction	£40,000k
Sub Total	**£40,100k - £40,400k**
Total Estimate	**£41,030k - £41,450k**

Notes:

1. In this example the customer would enter into a feasibility study agreement to investigate the possible options for National Grid building the System Extension pipeline.
2. In this example the customer would provide metering instrumentation to National Grid's satisfaction.
3. Assuming the customer wishes National Grid to proceed with building the System Extension pipeline, the customer would enter into a single design and build agreement for an ROV installation and the System Extension pipeline. Within this agreement, the design elements would be charged separately and in advance of the Construction Works.
4. All costs shown include applicable overheads and are Estimated Costs and are provided for guidance purposes only.
5. The example is for indicative purposes only and may be affected by specified requirements or complications associated with specific projects. Actual Costs will be charged to the customer.
6. The charges shown in this section do not include gas flow and energy measurement equipment, as National Grid does not offer new transmission connection metering installations.
7. Charges shown in these examples do not include VAT, which may be applicable.

Connection for a System Entry Facility – Onshore Storage

2. **Example 2** – New onshore storage facility – National Grid to provide only the connection apparatus connecting to the NTS at a greenfield site.

Indicative price details (at the time of publication)

Connection apparatus: ROV Installation

Conceptual design study	£30k - £50k
Detailed design & construction	£900k - £1,000k
Total Estimate	**£930k - £1,050k**

Notes:

1. In this example the customer would enter into a design and build agreement for a ROV installation located on the NTS immediately downstream of the System Extension pipeline. Within this agreement, the design elements would be charged separately and in advance of the Construction Works.
2. In this example the customer would provide the metering and Gas Quality Instrumentation to National Grid's satisfaction.
3. The customer would not be asked for a capital contribution towards any System Extension pipeline between the NTS and the ROV, or Reinforcement as these would be provided subject to the rules of the IECR methodology statement.
4. All costs shown include applicable overheads and are Estimated Costs and are provided for guidance purposes only.
5. This example is for indicative purposes only and may be affected by specified requirements or complications associated with specific projects. Actual Costs will be charged to the customer.
6. The charges shown in this section do not include gas flow and energy measurement equipment, as National Grid does not offer new transmission connection metering installations.
7. Charges shown in these examples do not include VAT, which may be applicable.

Connection at an Existing National Grid Site

3. **Example 3** – New Entry connection at existing beach terminal

Indicative price details (at the time of publication)

Connection apparatus: To be determined during study work.

Feasibility study	£150k
Conceptual design study	£30k - £50k
Sub Total	**£180k - £200k**
Detailed design & construction	TBD by feasibility and/or conceptual design studies
Sub Total	**£ TBD**
Total Estimate	**£ TBD**

Notes:

1. In this example the customer would enter into a feasibility study agreement to investigate the possibility of providing a connection at the existing terminal.
2. Depending on the findings of the feasibility study, the customer would then enter into single design and build agreement for a connection into the terminal. Within this agreement, the design elements would be charged separately and in advance of the Construction Works.
3. In this example the customer would provide the Gas Quality Instrumentation to National Grid's satisfaction.
4. The customer would not be asked for a capital contribution towards a System Extension pipeline for Entry purposes between the NTS and the ROV, or Reinforcement as these would be provided subject to the rules of the IECR methodology statement.
5. All costs shown include applicable overheads and are Estimated Costs.
6. The example is for indicative purposes only and may be affected by specified requirements or complications associated with specific projects. Actual Costs will be charged to the customer.
7. The charges shown in this section do not include gas flow and energy measurement equipment, as National Grid does not offer new transmission connection metering installations.
8. Charges shown in these examples do not include VAT, which may be applicable.

Modification to an existing Exit Connection with National Grid metering (a complex modification)

4. **Example 4** – Modification (e.g. amendment of pressure, flow rate, gas temperature, ramp rates etc) to an existing power station where National Grid own both the Connection and Metering Above Ground Installations (AGIs).

   Indicative estimated cost details (at the time of publication)

Feasibility Study	£100k - £250k
Conceptual design study	TBD
Detailed design & construction	TBD
Total Estimate	TBD

Notes:

1. In this example the customer would in the first instance enter into a feasibility study agreement to investigate the possibility of amending the existing wholly National Grid owned AGI. The feasibility study will determine the scope and nature of the work required which will determine the subsequent work elements needed.
2. Depending on the findings of the feasibility study, the customer would then enter into a single design and build agreement for connection upgrade works. Within this agreement, the design elements would be charged separately and in advance of the Construction Works.
3. The scope of all works will include both the Connection and Metering Above Ground Installations. For clarity the methodology for connection charges is included within this Statement whilst the methodology for applying metering charges is included within the Metering Charges Statement, which is available on the National Grid website http://www.nationalgrid.com/uk/Gas/Charges/statements/metering/
4. All costs shown include applicable overheads, are Estimated Costs and are provided for guidance purposes only.
5. The example is may be affected by specified requirements or complications associated with specific projects. Actual Costs will be charged to the customer.
6. Charges shown in these examples do not include VAT, which may be applicable.

Modification to an existing Exit Connection with customer owned metering (a semi-complex modification)

5. **Example 5** – Modification (e.g. amendment of flow rate, ramp rates, etc) to an existing Industrial Consumer where National Grid own the Connection AGI but the Metering AGI is owned by a 3rd party.

   Indicative estimated cost details (at the time of publication)

Feasibility Study	£50k to £100k
Conceptual design study	TBD
Detailed design & construction	TBD
Total Estimate	TBD

Notes:

1. In this example the customer would in the first instance enter into a feasibility study agreement to investigate the possibility of amending the existing Connection AGI. The feasibility study will determine the scope and nature of the work required which will determine the subsequent work elements needed.
2. Depending on the findings of the feasibility study, the customer would then enter into a design and build agreement for connection upgrade works. Within this agreement, the design elements would be charged separately and in advance of the Construction Works.
3. The scope of works above will only consider the impacts to the National Grid owned connection assets. The Customer will be responsible for ensuring that the Customer owned Metering assets are fit for purpose following the connection modification.
4. All costs shown include applicable overheads, are Estimated Costs and are provided for guidance purposes only.
5. The example may be affected by specified requirements or complications associated with specific projects. Actual Costs will be charged to the customer.
6. Charges shown in these examples do not include VAT, which may be applicable.