



Minimum Transmission Standards

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Minimum Transmission Standards - Introduction

- Define the minimum equipment rating and sizes which are appropriate for connections to the transmission system
 - Consistent with CER approved standard charges
- Actual build may be in excess of minimum standard
- Customer charge based on minimum standards
- Contestable build capital contribution



110kV Circuits – EirGrid Build Approach

- EirGrid considers future transmission needs when developing system requirements
- 110kV Overhead Lines in general constructed to a rating of 187/223 MVA (430sq.mm ACSR @ 80°C)
- 110kV Underground Cables rating requirement determined on a case by case basis
 - Rating dependent on future network planning requirements



Minimum Transmission Standards

110kV Transmission Circuits to Tail Stations
(MEC < 137MVA)

- The minimum acceptable standard is 137 / 164 MVA (summer / winter)
 - Overhead Lines – 300sq.mm ACSR @ 80°
 - Underground Cables – 1000sq.mm Al XLPE
 - Subsea Cables – 1000sq.mm Al XLPE
- Any Capital Contribution calculated using Standard Charges



Minimum Transmission Standards

110kV Meshed Circuits (Applies to Looped Connections)

- The minimum standard for the connection shall match
 - the rating of the existing circuit
 - subject to minimum standards

Or

- the proposed rating following a planned uprate
 - EirGrid published documentation
- Any Capital Contribution calculated using Standard Charges



110kV AIS Substations – EirGrid Build Approach

- EirGrid considers future transmission needs when developing system requirements
- 110kV stations specified to facilitate future requirements
- In general space for future developments (e.g. future bays, busbars, double busbars) is specified



Minimum Transmission Standards

110kV AIS Tail Stations

- The minimum acceptable standard a single bay station with no future space provision
- EirGrid may require the provision of space for future developments
 - Capital Contribution provided for land costs based on standard land charge



Minimum Transmission Standards

110kV AIS Stations with Busbar (≤ 4 bays)

- The minimum acceptable standard a single busbar station with no future space provision
- EirGrid may require the provision of space for future developments
 - Capital Contribution provided for
 - land costs based on standard estimate
 - civil works based on standard estimate