



# IWEA NI Transmission Issues

17<sup>th</sup> October 2008

NIE Wind Workshop

# IWEA Aims

- IWEA believes that Northern Ireland can be a world leader in renewable energy
  - Reduce CO2 emissions
  - Create investment and jobs
  - Increase energy security
  - Create a thriving export industry
- IWEA promotes the development of onshore and offshore wind
- IWEA supports the development of other renewables particularly marine energy



# IWEA Members

- Over 300 members from various sectors
  - Wind farm developers
  - Turbine manufacturers
  - Supply companies
  - Banks
  - Construction companies
  - Insurance companies
  - Legal firms
  - Consultancy
  - Accountants
  - Small local businesses





# Benefits of renewable energy

- Wind reduces and stabilises energy costs
- Reduces CO2 emissions
- Creates investment and jobs
- Access to a long term secure energy source
- Potential for an export industry

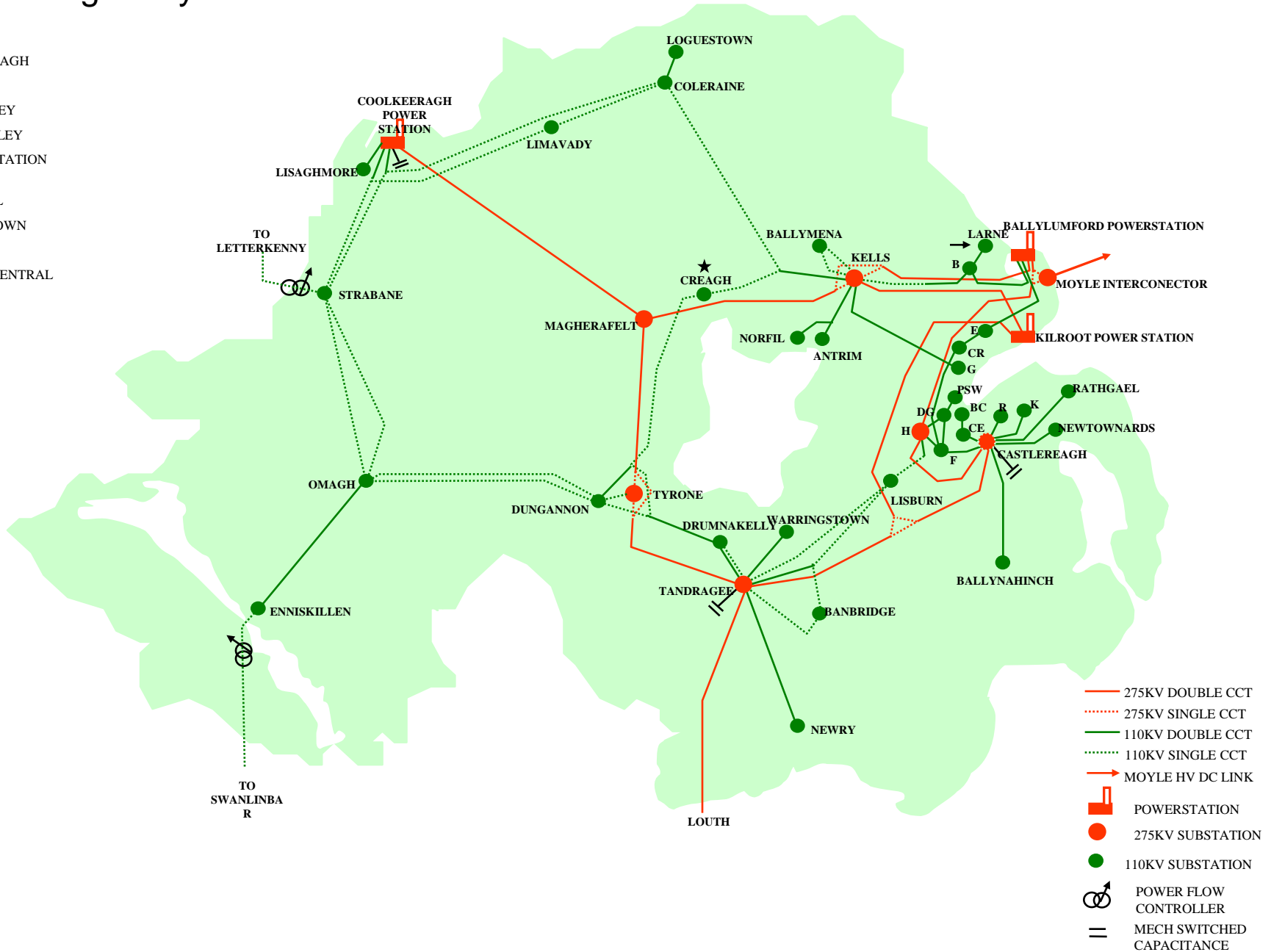
# NI Wind Industry

- Installed Capacity
  - Operational Oct 2008 257 MW
  - by April 2009 297 MW
  - Contracted Oct 2008 186 MW
- Total operational and contracted
  - Oct 2008 483MW
- In Planning System
  - Jun 2008 ~1200 MW

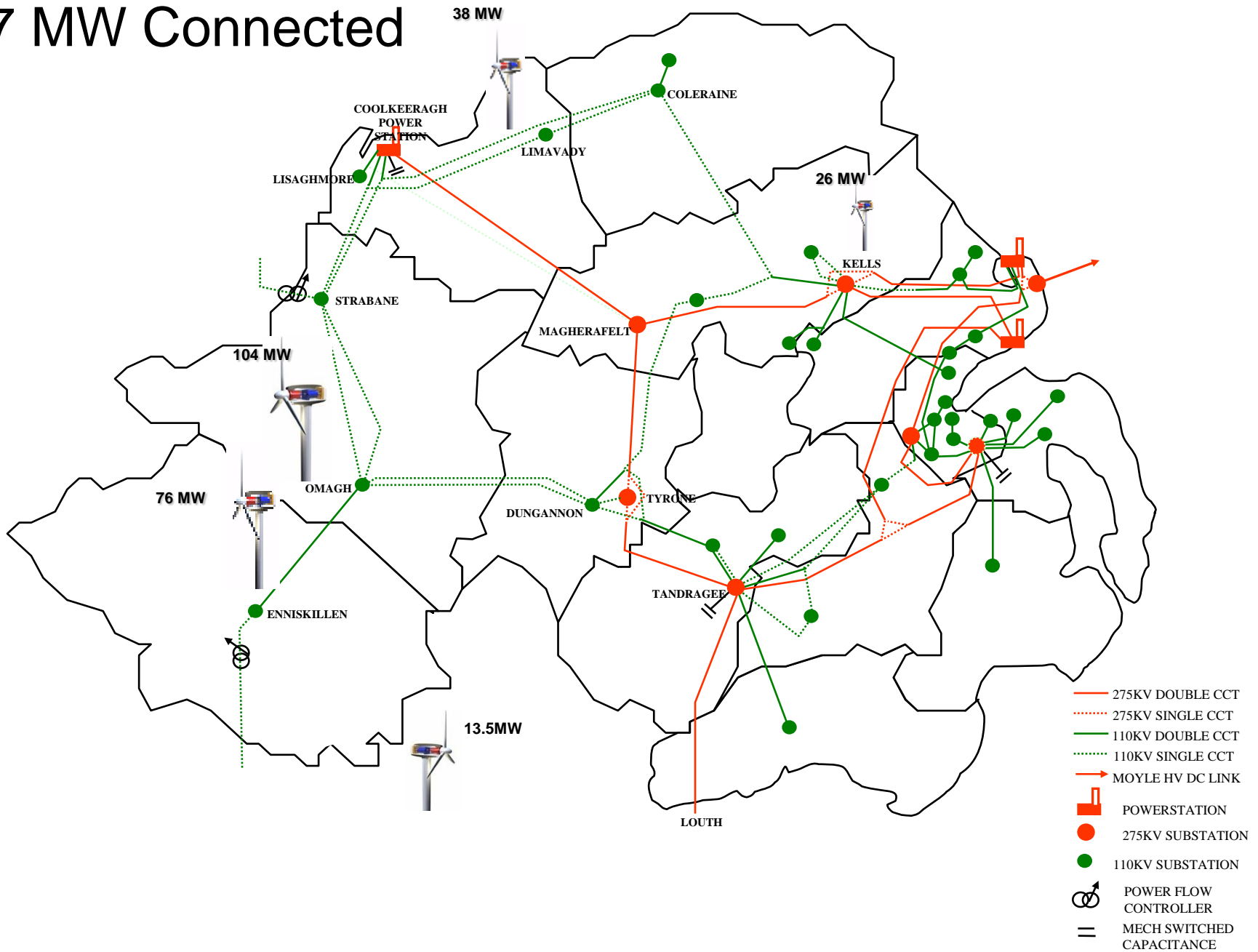


# Existing NI System

- B – BALLYVALLAGH
- E – EDEN
- CR – CARNMONEY
- G – GLENGORMLEY
- PSW – POWER STATION WEST
- DG – DONEGALL
- H – HANNAHSTOWN
- F – FINAGHY
- BC – BELFAST CENTRAL
- CE – CREGAGH
- R – ROSEBANK
- K – KNOCK

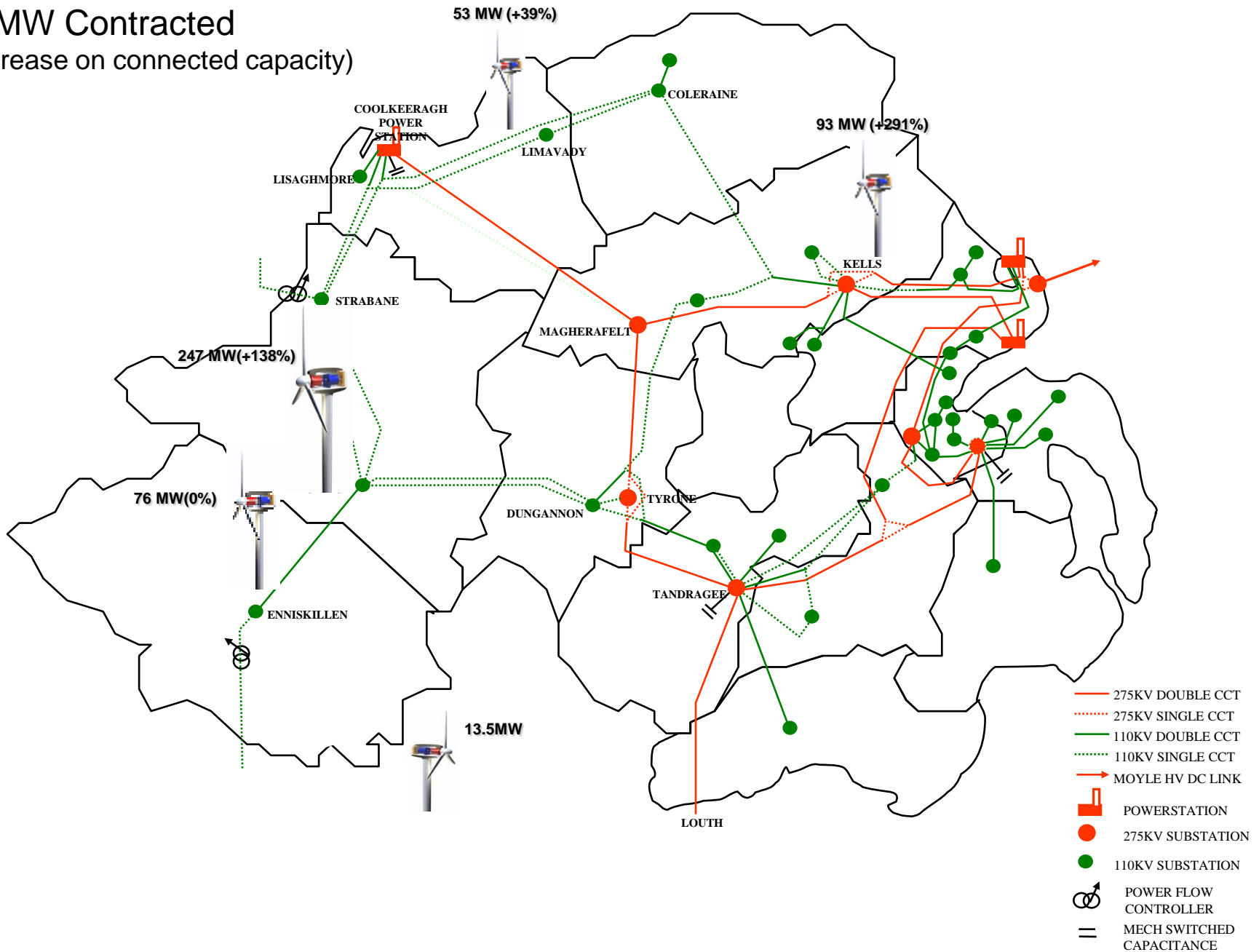


# 257 MW Connected



# 225 MW Contracted

(% increase on connected capacity)

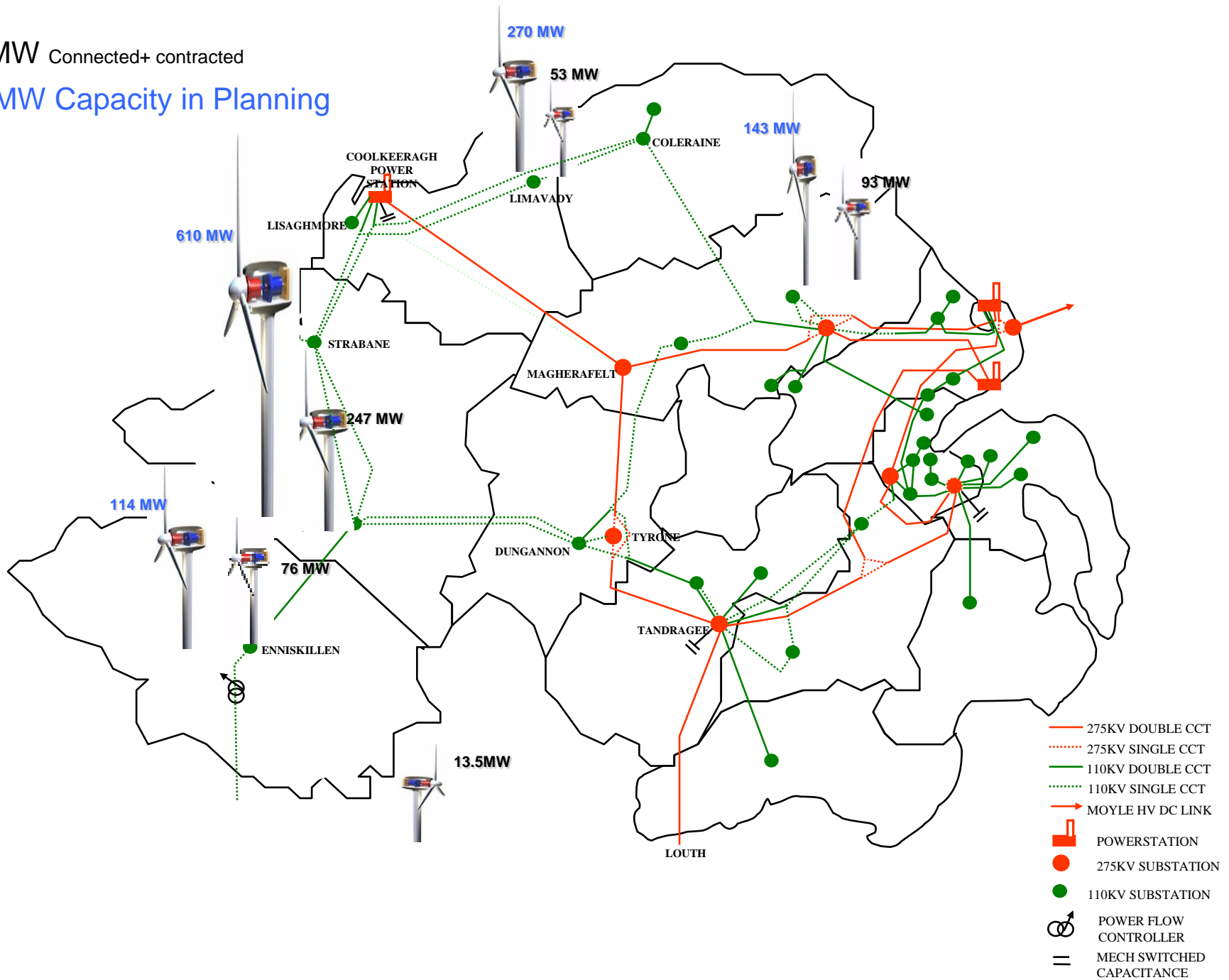


- 275KV DOUBLE CCT
- ⋯ 275KV SINGLE CCT
- 110KV DOUBLE CCT
- ⋯ 110KV SINGLE CCT
- MOYLE HV DC LINK
- POWERSTATION
- 275KV SUBSTATION
- 110KV SUBSTATION
- POWER FLOW CONTROLLER
- = MECH SWITCHED CAPACITANCE



483 MW Connected+ contracted

1200 MW Capacity in Planning



# Network Development

- Critical that strategies are brought forward into detailed plans
- Developers keen to understand how constraints will be reduced
- Financially firm delivery dates for major projects
  - Incentivise owners and operators to achieve target timelines



# Other Issues

- Clear rules for curtailment particularly for non firm windfarms
- Constraint reports suitable for banking due diligence
- Transparency around connection offer process
  - Publish list of all accepted offers
- Significant concern around proposed Supplementary Planning Guidelines



# Summary

- NI has excellent potential to develop a significant wind industry
- Investors require certainty around roll out of key infrastructure
- Planning guidelines should enable responsible development

