

SGN: Meet the Buyer

Breakout Sessions

Transmission and Major Projects



SGN
Your gas. Our network.

Transmission & Major Projects

Scotland & Southern

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Aaron Goodall, *Project Manager (Major Projects)*



SGN

Your gas. Our network.

SGN Major Projects Who are we?





Manage the Safe Delivery of
Projects on the >7Bar Network.



Planning &
Design



Material
Procurement



Construction

SGN Major Projects

What we do

- Manage the planning, design and construction of the assets that provide a safe and reliable supply of gas to 5.9 million customers.
- Safe and cost-effective delivery of new build and replacement on all Transmission assets – High Pressure Pipelines, Pressure Control and Electrical & Instrumentation and Statutory Independent Undertakings.
- Manage the planning, design and construction of third-party pipeline diversions and bio-methane gas entry facilities.
- Delivery of a project portfolio totalling £109 million in GD2
- Reactive major emergency work such as Meadowhill Quarry pipeline washout, GM4 pipeline landslip remediation, Huntly loss of supply and P054 Pipeline.

Compliance & Safety

- Complex, high pressure engineering
- Legislative and safety compliance– CDM, PSSR, Pipeline Safety Regs, DSEAR, COMAH, TD1, TD13, SR25, GM7



Planning & Design

LANE PRS

ID SECTION

Sandhill Farr

Robingate Wood

Sherwood

SHERWOOD FOREST

Sandown Park

- Design House Frameworks
- Planning Permission
- Environmental Services
- Topography

"GOLDEN" WELD 3

GM4 450

2 X 50 MM VENTS

INSTALL CATHODIC PROTECTION CROSS BONDING LUG. FOR DETAILS SEE DRAWING 3050-LIPTSTP-P-003

50 MM PRESSURE POINT

"GOLDEN" WELD 4

150 MM BAG TEE

2 X 50 MM PRESSURE POINTS

450 MM STOPPLE TEE

SGN/SP/P/7/10
SGN/SP/P/7/11
FOR MATERIAL SPECIFICATIONS SEE
MATERIAL SCHEDULE
3050-LIPTSTP-M-001.

3. DESIGN CONDITIONS

GM4:
MAX. OPERATING PRESSURE - 38 BAR
MAX. OPERATING PRESSURE - 9 BAR
SAFE OPERATING LIMIT - 41.8 BAR
DESIGN PRESSURE - 38 BAR

TEMPERATURE:
-20 degC TO +50 degC

EXISTING PIPE DETAILS
457 MM OD X 9.5 W/T X GRADE X52

4. PRESSURE SYSTEMS REFERENCE:

HP PIPELINE SYSTEM: GM4

5. ALL MEASUREMENTS TO BE SITE CHECKED BY CONTRACTOR.

6. POSITIONING OF HOT TAP TEES AND WELDOLANGE PRESSURE POINTS TO BE AGREED ON SITE WITH SGN SITE REPRESENTATIVE SUBJECT TO INSPECTION OF EXISTING WELDS AND PIPE.

7. FINAL CUT LOCATIONS TO BE AGREED ON SITE WITH SGN SITE REPRESENTATIVE SUBJECT TO INSPECTION OF EXISTING WELDS AND PIPE.

8. WELDING TO SPECIFICATIONS TO IDN/SP/P/9, SGN/SP/W/8, & WELD END PREPARATION TO T/SP/P/16. TESTING TO SGN/SP/NDT/1.

9. ALL NEW PIPEWORK PRESSURE TESTED TO IDGM/TO/1 & SGN/W/PT/1.

10. "GOLDEN WELD" TO BE SUBJECTED TO TWO FORMS OF NON DESTRUCTIVE TESTING, AND CONFIRMED AS HAVING NO DEFECTS PRIOR TO PIPE SECTION BEING BROUGHT INTO SERVICE.

11. ALL PIPEWORK COATED IN ACCORDANCE WITH SPECIFICATION T/SP/CW/5.

12. ALL EXCAVATIONS IN PROXIMITY OF HP PIPEWORK TO BE IN ACCORDANCE WITH SGN WORK PROCEDURE SGN/W/SW/2

13. HDPE IDENTIFICATION TILE INSTALLED OVER STOPPLE ARRANGEMENT, 300 ABOVE FITTINGS & EXTENDING MIN 1.0M BEYOND PIPELINE/FITTINGS.

REFERENCE DRAWINGS

- 3050-LIPTSTP-A-006
- 3050-LIPTSTP-L-004
- 3050-LIPTSTP-L-005
- 3050-LIPTSTP-P-001
- 3050-LIPTSTP-P-002
- 3050-LIPTSTP-P-003
- 3050-LIPTSTP-P-004
- 3050-LIPTSTP-P-005

MAP LEGEND

GM4

DRAWING LEGEND

PLANT TO BE RETAINED

NEW PLANT

TEMPORARY FITTING

DATE / PROJECT

GM4 LAND SLIP ISOLATION

THE SHERWOOD FOREST GENERAL ARRANGEMENT WORKS COMPLETION

SGN
Your Gas, Our Network

St Lawrence House, Gordon Approach, Holey, Surrey, GU6 5AJ

DATE: 06/23 DRAWN BY: CH checked: approved

SCALE: NDT TO SCALE: 1:100




Material Procurement

- Pressure Reduction Skids
- Pipe
- Components – Filters, Heat exchangers, valves
- Electrical Equipment – Transformers, Control rooms
- Kiosk
- Cathodic protection materials



Construction

- **Tender through Frameworks utilising NEC4 Contracts**
 - Main Works Contractor
 - Electrical installations
- **Inspection and Auditing services**
 - SPI inspections
 - Safety Audits



**Small Pre-Heating Upgrade
Project at start of Construction**



Same Project Completed



Another Pre-heating Project Completed



GD2 Workload Summary – MP Scotland

Major PCD Projects

- Provan Rationalisation
- Dunkeld HP Pipeline replacement & TRS
- Pitcairngreen to Huntingtower Pipeline
- Newton Mearns Waterfoot Pipeline replacement & TRS / DG install.

Emergency Work

- Meadowhill emergency pipeline reinstatement
- Meadowhill permanent pipeline diversion
- Cowdenhill Pipeline diversion
- Huntly loss of supply incident
- Broxburn Regulator replacement
- Oban Compressor replacement

NARMs & PCD Projects

- Lineguard removal
- Metering upgrades
- Heating replacement and upgrades
- TRS upgrade & replacements projects
- Telemetry upgrades
- SIU upgrade and replacement projects

Unplanned / 3rd Party Works

- Bangley Quarry Bio-methane connection
- Coreside Bio-methane connection and pipeline
- Ladywell 2 Bio-methane connection
- Ladywell 3-5 Bio-methane connection
- Grissan Propane Reduction Project
- Longman Junction pipeline diversion – Planning



GD2 Workload Summary – MP SOUTH

Major PCD Projects

- Winkfield South and South East Rebuild
- Mappowder NTS PRS Offtake
- 19 E&I Full site upgrades

Emergency Work

- GM4 Pipeline sectional cut out
- P054 Pipeline sectional replacement

Other Work

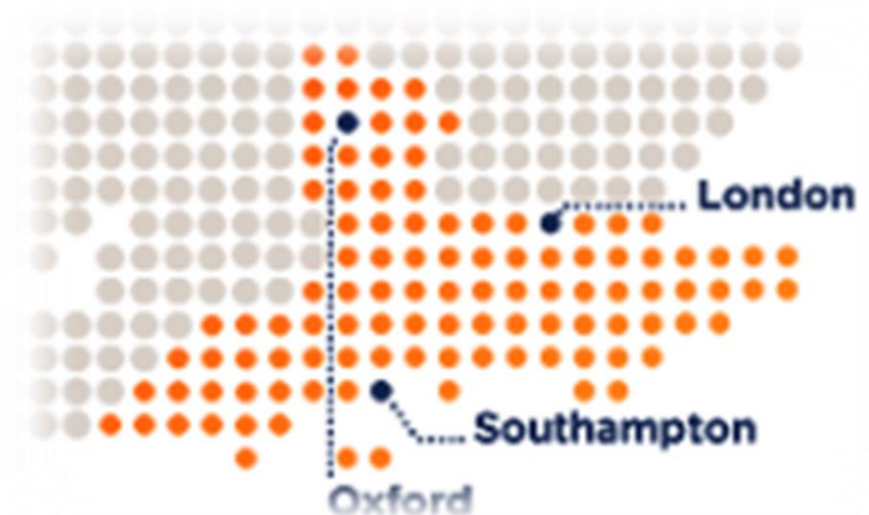
- 69 RTU Replacements
- 1 x Carry over project from GD1

NARMs Projects

- 9 x Pre Heat Replacements
- 3 x Full Site Rebuilds
- 1 x Heat Exchanger Removal
- 3 x Component Replacements

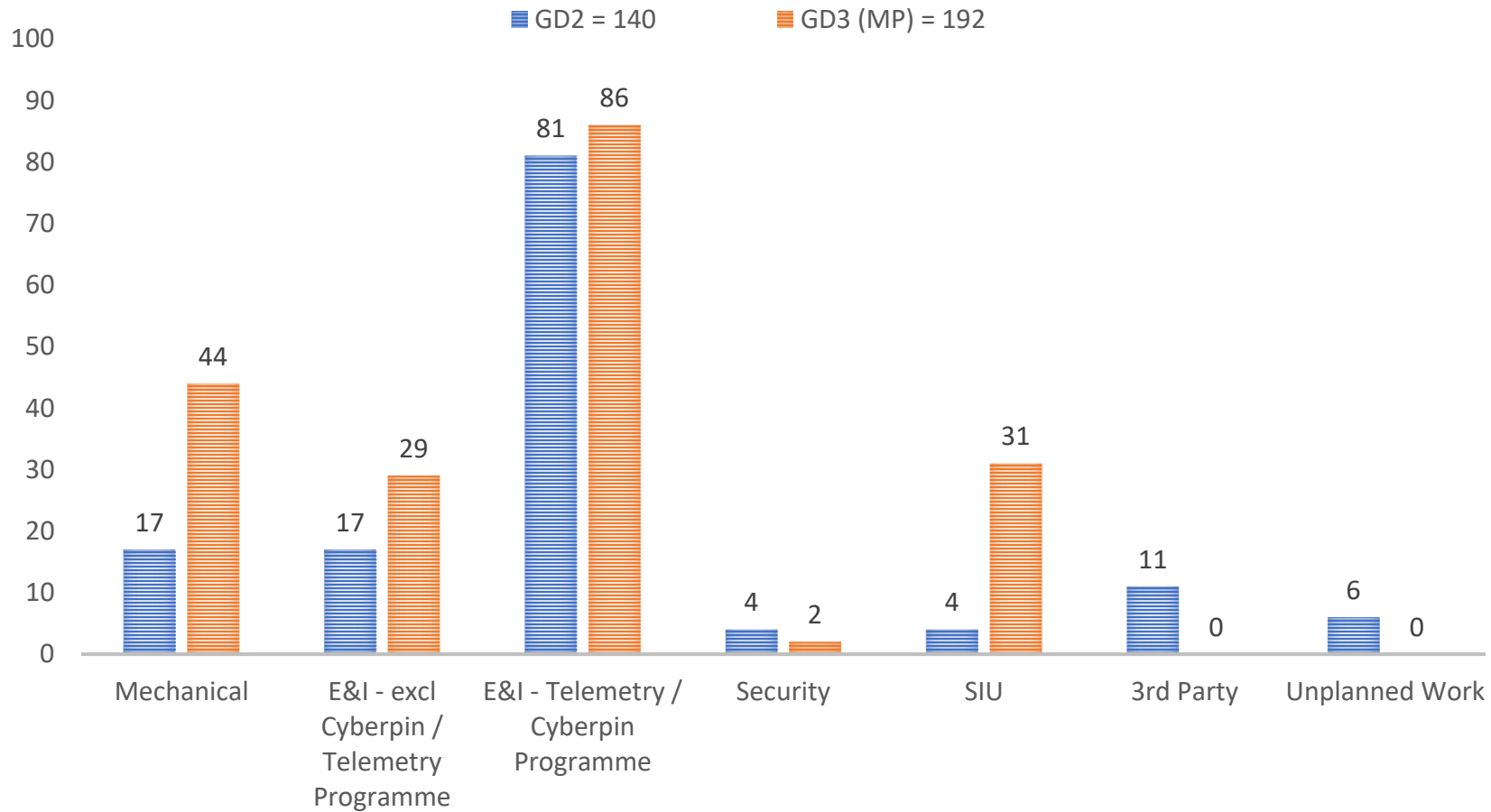
Unplanned / 3rd Party Works

- 6 x 3rd Party connection planning
- 1 x Filter Replacement
- 2 x Chromat Replacement



Project Workload – MP Scotland - GD2 vs GD3

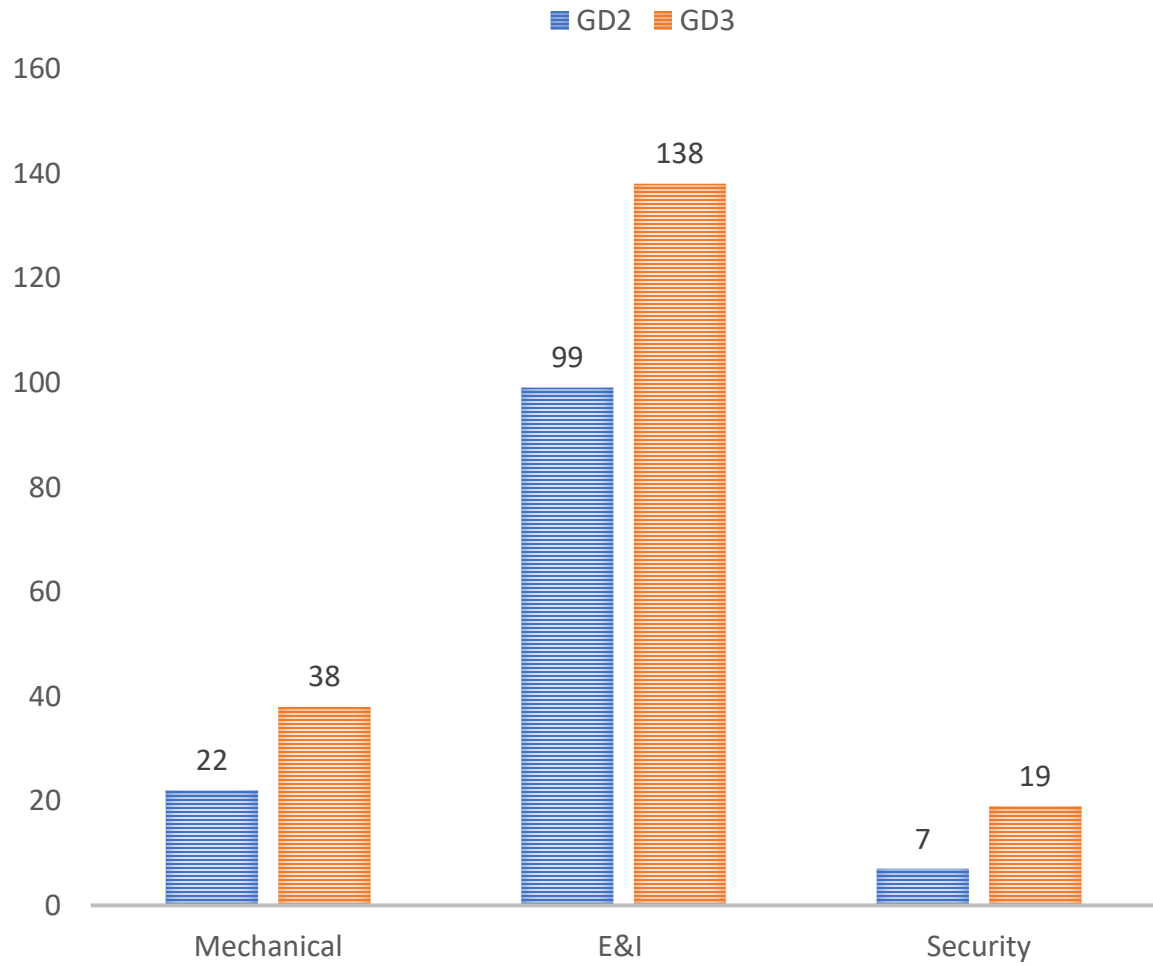
WORKLOAD COMPARISON GD2 VS GD3



Scope	GD2	GD3
Full site rebuild	6	8
Heating Upgrade and Replacement	4	21
Pipeline Diversion	2	0
Stream modification and replacement	2	15
Pipeline Replacement	1	0
Decommission and Downrate	2	0
Mech Total	17	44
E&I Upgrade	8	1
Flow computer upgrades	0	6
Telemetry Upgrade / Cyber pln	81	86
Kiosk Replacement	1	0
GC Replacement	2	0
Metering	4	3
LGT Upgrades	0	9
Inter LDZ Metering	1	0
HV Rationalisation	1	0
Bio Kiosk	0	1
Security system component replacement	0	9
E&I Total	98	115
Cat 2	0	1
Cat 3	1	1
Fence Replacement	3	0
Security Total	4	2
Fire Water Upgrade	0	6
Boiler Replacement	0	1
Generator replacement	0	4
E&I Upgrades	3	6
Functional Safety Upgrades	0	5
Gas Quality	0	4
Lighting	0	3
Compressor kiosk replacement / remediation	1	1
Vapour Barrier	0	1
SIU Total	4	31
3rd party Pipeline Diversion	1	0
3rd party Biomethane	10	0
Unplanned	6	0
Other Total	17	0
Total	140	192

Project Workload – MP South - GD2 vs GD3

WORKLOAD COMPARISON GD2 VS GD3



Scope	GD2	GD3
Component Replacement	5	2
Full Site Rebuild (Incl Full E&I Upgrade)	5	10
Heating Replacement	3	7
Heating Upgrade	6	0
Offtake Rebuild	3	1
LGT	0	6
Metering Upgrade (Incl flow computers)	0	8
Pipeline	0	4
Mechanical Total	22	38
E&I ONLY	6	1
E&I Upgrade (Incl in the mech work)	22	0
Telemetry Upgrade	69	0
Bio Kiosk Remediation	0	4
Flow Computer Upgrade	0	6
Chromat Replacement	0	1
Cyberpin	0	108
Functional Safety	1	18
E&I Total	98	138
EC&I Physical Security	0	18
Security Fencing	7	1
Security Total	7	19
TOTAL	127	195

Q&A

Submit your questions
through the Q&A channel



Useful links



SGN new and existing suppliers

All you need to know about being or becoming a SGN supplier

<https://www.sgn.co.uk/help-and-advice/potential-and-existing-suppliers>



Supplier interest registration

Reference **SGN MTB** in the further information box

<https://my.achilles.com/join-community?communitycode=ANT&lang=en-GB&buyerid=00072927>



Supply chain school registration

Access free sustainability training

https://learn.supplychainschool.co.uk/auth/scss/register_form.php



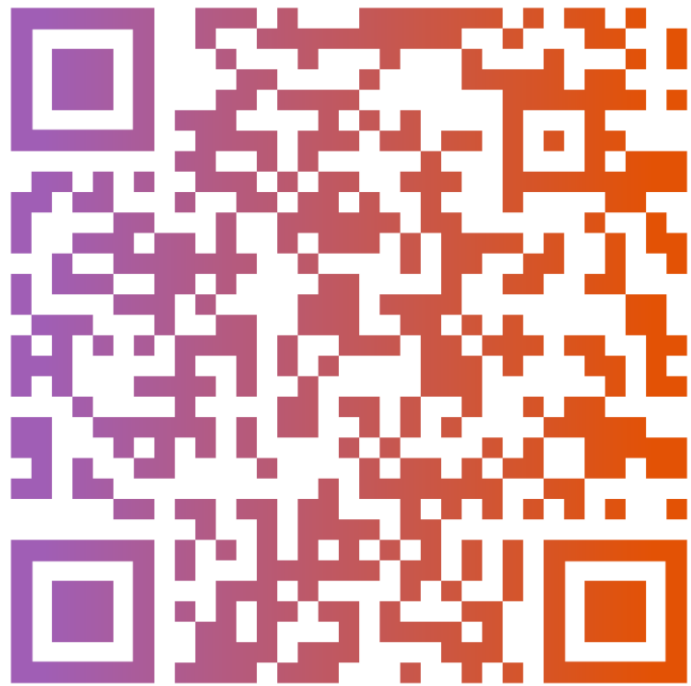
REPEX Supplier registration

For construction, maintenance & replacement of gas distribution mains and services in our Southern England network

<https://www.delta-sourcing.com/delta/signup.html?userType=supplier>



Tell us what you think and what you'd like to know more about.



Scan the QR code or visit

<https://www.smartsurvey.co.uk/s/MeetTheBuyer/>

to complete our short survey

SGN

Meet the Buyer event

Thank You



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