**LIST OF NOVEL TECHNOLOGIES APPROVED**

**FOR DEPLOYMENT IN THE OIL & GAS INDUSTRY**

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| **S/N** | **Description of Technology** | **Area of relevance** | **Features** | **Proponents** | **Year of Approval** |
|  | **Local Promoter** | **Original Equipment Manufacturer(OEM)** |
| 1 | NOV SEABOXTM AND SWIFTTM TECHNOLOGIES | Subsea water Treatment and Smart Water In-Take Technology | * Zero chemical handling
* Improved oil recovery
* Reduced offshore manning requirements
* Lower power requirements
 | Brade Oil & Gas | NOV Completions & Production Solutions |  2016 |
| 2 | ZAP-LOK CONNECTION | Oil & Gas Transportation & Distribution Pipe Installations | * No welding required for joining pipes
* Significant time and cost savings
 | IES Energy | NOV Tuboscope | 2016 |
| 3 | GLASS REINFORCED EPOXY(GRE) PIPES | Oil & Gas Transportation & Distribution | * No join construction
* Any diameter up to 1.2 meters
* Bullet and explosion resistant
* Fire proof and UV resistant
* Projected service life of 100 yrs
 | Pentagon Petroleum Limited | WNR Systems Pte Ltd | 2017 |
| 4 | WASTE PLASTICS PYROLYSIS  | Industrial fuel oil for Furnaces and Boilers | * Converts Waste Plastics to fuel oil
* Improves Waste Management
 | MGK Global Services | Henan Doing | 2017 |

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| **S/N** | **Description of Technology** | **Area of relevance** | **Features** | **Proponents** | **Year of Approval** |
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| 5 | SHANGHAI YINUO Metering instruments  | Fiscal metering/Custody Transfer | * Easy maintenance
* Low noise and vibration
* Long service life
 | Milat Nigeria Limited | Shanghai Yinuo Instrument Company. Ltd | 2018 |
| 6 | Magnetometry Tomography Method (mtm) | Non Intrusive Inspection of Pipelines | * No interruption to pipeline operation nor contact with pipeline
* Detects defective insulation coatings and metal defects
* Detects and measures levels of stress
 | Transkor Global Realities Services Ltd. | Transkor-K | 2018 |
| 7 | Pyrolysis of Waste Tyres to Diesel | Heating of Industrial Machines and Equipment | * Converts Waste Tyres to fuel oil
* Improves Waste Management
 | Shri Balaji Industries Limited | SHREE BALAJI EQUIPMENT CO, INDIA | 2018 |
| 8 | flexpipe line pipe(FPLP) | Oil & Gas Transportation & Distribution | * Corrosion resistant
* Low maintenance
 | Petra Services. Ltd. | Shawcor | 2018 |
| 9 | Ceramic Membrane Separation Technology | Produced water treatment | * Removes oil and suspended solids from

produced water* Zero chemical handling
 | Ozonix Technology Ltd | MT Separation, Norway | 2018 |
| 10 | NOv **FIBRESPAR LINE PIPE** | Oil & Gas Transportation & Distribution | * Corrosion resistant

• Low maintenance | Bell Oil & Gas System | NOV Fibreglass | 2018 |