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add energy



Proud winners of

THE QUEENS AWARD

Enterprise in International Trade



Add Energy Group

Enhancing performance and
assuring integrity for operating
facilities across the globe



Why Add Energy?

Add Energy is part of the global independent energy and marine consultants – ABL Group



The ABL Group

Add Energy's parent
company ABL Group



ABL2030 – Sustainability

*“At **ABL Group** we recognise that for our business to be successful in the age of climate crisis and energy transition, we must redefine what we do in a genuine way to put sustainability at the centre of all strategy and operations.*

*We published our first Sustainability Report in our 2019 Annual Report, this was really a statement and vision. A statement of intent with 5 key principals to guide and drive our journey. An outcome of this has been our commitment to **achieve 50% renewables or energy transition driven revenues by 2025** and **creating the foundation for our Environmental, Social and Governance (“ESG”) reporting.***

This year’s Sustainability Report will describe our actions to continually improve the integration of the **United Nation Global Compact** and its principles into our business strategy, culture and daily operations. By including this in our Annual Report to shareholders, we also show our commitment to share this information with our stakeholders using our primary channels of communication.*

*We launched a comprehensive process to establish best practice ESG reporting and to instil sustainability into the culture and forward strategy of the group last year calling it AqualisBraemar2030, I am delighted that I can rename this as **ABL2030.**” **

WE SUPPORT



A handwritten signature in black ink, reading "R. Segal".

Reuben Segal, CEO



Our Employee Focus How we do business



Our Business Focus Where we do business



ABL Group's Markets



The ABL Group Family

Through targeted acquisition and organic growth, the **ABL Group** have built a comprehensive family of branded energy and marine consultancy companies offering services that are both complementary and interconnected. This allows our business lines, branded service companies, and expertise to focus closely on delivering technical excellence in engineering and consultancy, loss prevention and loss management.



ABL Group

ABL Group is a leading global independent energy and marine consultancy working in energy and oceans to de-risk and drive the energy transition across renewables, maritime and oil and gas sectors.



OWC

Project development services, owner's engineering and technical due diligence to the offshore renewables industry.



East Point Geo

Expert Geoconsulting organization supporting all sectors; providing efficient client-focused deliverables including data assurance, ground models and quantitative risk assessment.



INNOSEA

Engineering advisory, verification, research and development, concept development and consultancy for marine renewable energy.



Add Energy

Asset integrity management and operations consultants.



Longitude Engineering

Independent engineering, design and analysis services for the marine, renewables, oil and gas, defence and offshore infrastructure industries.



OSD-IMT

Established in 1989, a specialist ship design house focused on offshore support vessels and clean shipping technology.



ABL Yachts

Superyacht surveyors and consultants.

Add Energy's capabilities

A snapshot of our solutions



Asset and Integrity Management

Enhancing plant and business performance in the safest and most efficient way possible



Well Engineering and Management

Assure safety, regulatory compliance and efficiency in your drilling, production and decommissioning projects



Safety and Risk Engineering

Technical assurance of safety and mitigation of risks



Training and Advisory

Access solutions to enhance performance, reduce cost and assure integrity



Decarbonization and Energy Transition

Accelerating your transition to net-zero



Software

Unlock performance improvements opportunities, optimize costs and assure integrity of your facility

The management team

Leading in niches, unique in combination

Corporate Add Energy Group



Ole B. Rygg
Chief Executive Officer



Harald Justnæs
Chief Financial Officer



Terje Løkke-Sørensen
Chief Technical Officer

Business Unit Management



Eduardo Robaina
Well Engineering,
Well Management and Safety & Risk



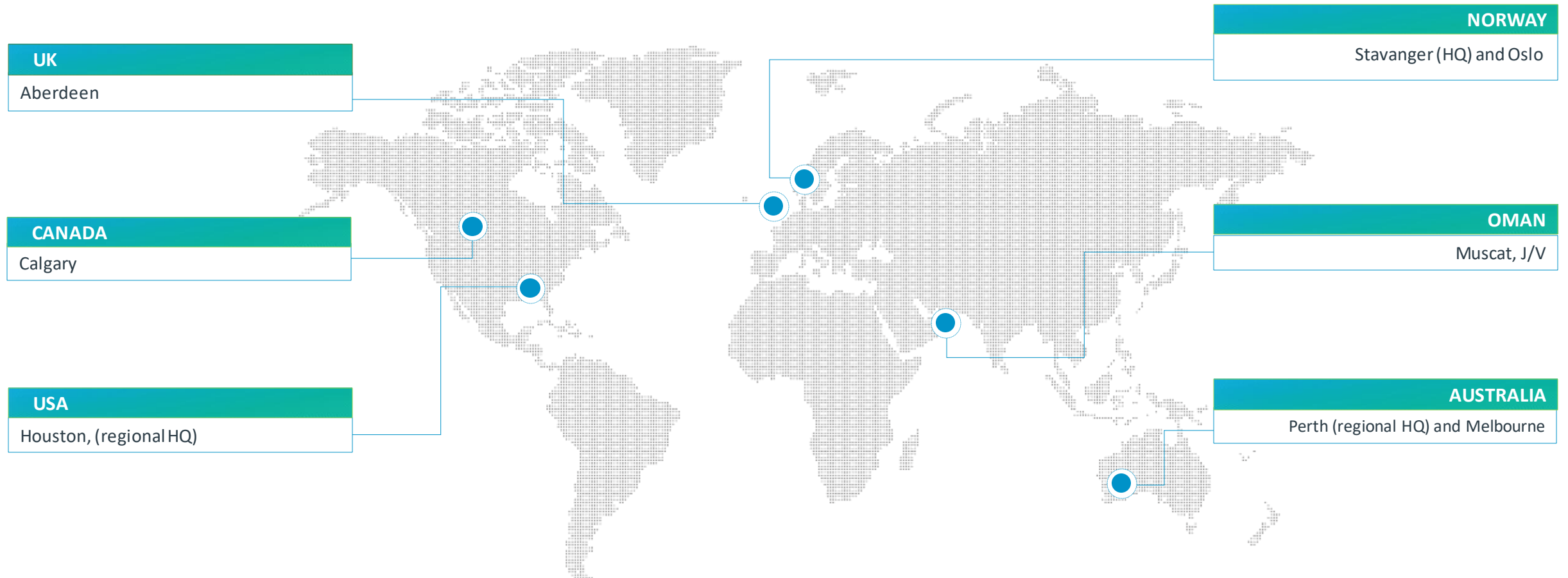
Peter Adam
Asset and Integrity Management



Morten Emilsen
Well Control and Well Kill Support

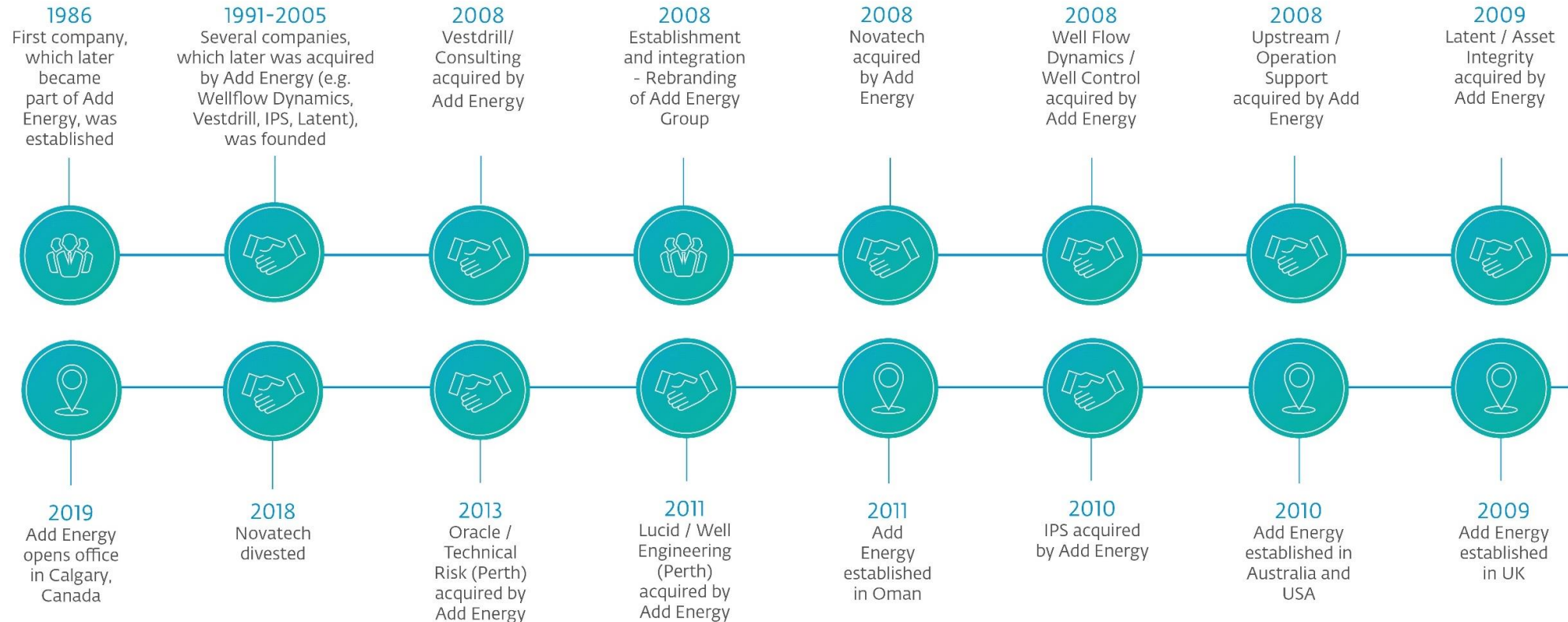
Our global hubs

Enabling us to deliver solutions to clients on a global scale



The formation of Add Energy Group

Created on a foundation of individual energy service companies that each possess specialist knowledge within their niche



= Geo. Expansion



= M&A-Activity



= Company Change

Our key clients

Delivering solutions across multiple sectors, environments and regions



Oil and gas



Chemicals



Energy transition



Power generation & renewables



Manufacturing



Service companies



Marine



Healthcare



Our solutions

How we can add value

Our solutions and services

Asset and Integrity Management

- Asset Management
- Maintenance Optimization
- Business Performance Insights
- Master Data Build and Optimization
- Inventory Management
- Operation and Maintenance Support
- Safety Integrity and Risk Management

Decarbonization and Energy Transition

- Well Integrity for CCS and Geothermal wells
- Well Management and Well Engineering of CO2 storage and Geothermal wells
- Safety audits and HSE planning and reviews
- Maintenance, Integrity and Inventory Management for Renewable Energy Plants

Well Engineering and Management

- Well Engineering
- Well Management
- Production Optimization
- Well Integrity
- Well Examination
- Well Kill Support
- Well Control
- Blowout Contingency
- Reservoir and Flow Simulations

Safety and Risk Engineering

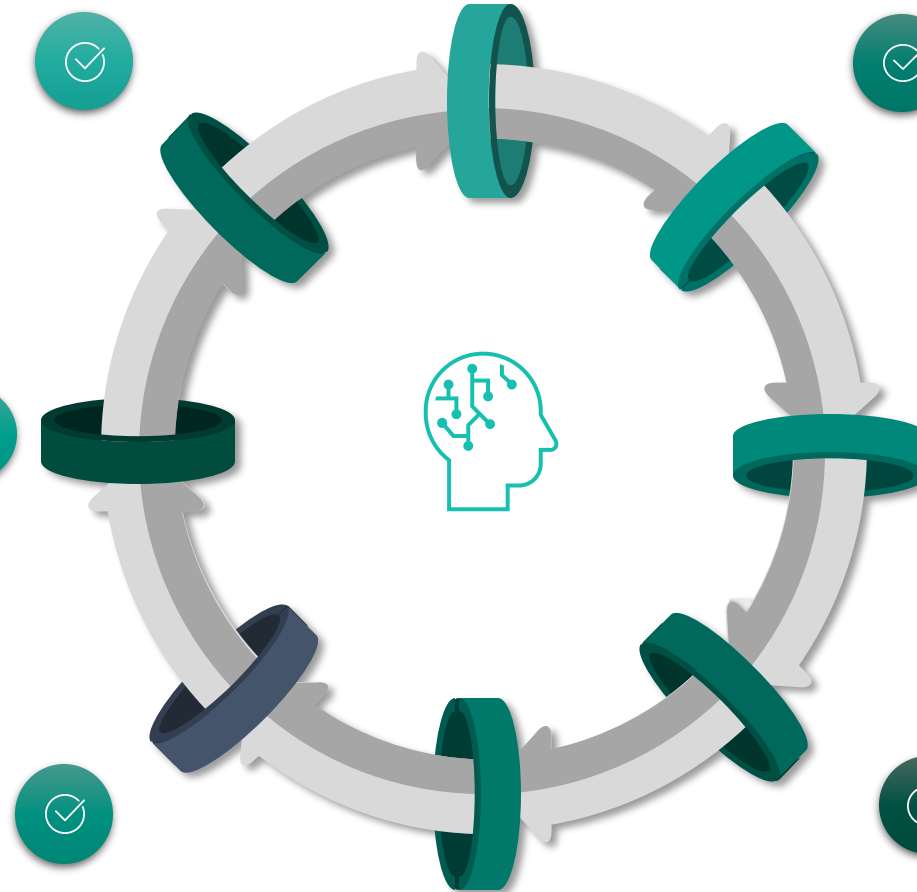
- Safety and Risk Management
- Technical Risk Evaluations and Safety Cases
- Assistance with Regulatory Approvals and Compliance Processes
- HSEQ Training

The Add Energy Academy

- Operations and Maintenance Training
- Drilling and Well Engineering Training
- Safety and Risk Management Training
- Leadership Training
- eLearning

ADDVisor

- Ad hoc Technical Consultancy Support
- Workshop Facilitation
- Independent Technical Review
- Technical Response
- Independent Technical Studies



Asset and Integrity Management

We combine our award-winning technology and subject matter expert consultants, engineers and data scientists to deliver strategic asset management and performance optimization solutions to:

Protect your people, plant, and the environment

Safeguard critical assets through implementation of risk mitigation barriers, enhanced competency of your people and compliance with regulations

Comply with international standards

Gain access to world-class maintenance, materials and integrity standards, strategies and technology developed by one of the largest pools of asset management subject matter experts in the industry



Boost company performance and profits

Deploy fully optimized maintenance, integrity, and materials management tactics to cut costs without compromising safety and integrity

Minimize plant and equipment downtime

Assure reliability and availability of your assets by executing maintenance at the right time, with the right materials, no more – no less, derived from independent experts

Services offered by Add Energy

- Asset Management
- Maintenance Optimization
- Business Performance Insights
- Master Data Build and Optimization
- Inventory Management
- Operational Support
- Safety Integrity and Risk Management
- Operations and Maintenance Training

Software solutions

- RFID Asset Tracking and Management of Change
- Digital Inventory Management Optimization
- Maintenance Data Build and Optimization
- Audit, Verification and Data Collection

Our experience

Showcasing expertise through proven results and track record

Our asset and integrity management experience spans across multiple sectors, including but not limited to oil and gas, power generation, renewable energy, drilling, mining and FPSO facilities. Some of our highlights include:



Well Engineering and Management



We offer onsite and remote world-class consultancy services and engineering support to enable both onshore and offshore drilling, production and decommissioning projects designed to:

Assure compliance with standards and regulations

Utilize independent subject matter experts to determine how to assure compliance with international standards and local regulations to mitigate risk, preserve integrity, optimize production, and avoid penalties

Reduce your carbon footprint

Kickstart, facilitate or accelerate your decarbonization journey by relying on subject matter experts to assess, evaluate, and support the implementation of your carbon reduction initiatives through proven processes and independent verification.

Protect your people, assets, and the environment

Safeguard critical assets through the implementation of well integrity risk mitigation barriers, effective contingency planning, and enhanced competency of your people

Minimize well costs

Identify cost saving opportunities derived from decades of experience, design improvements and utilization of proven technology



Optimize production

Maximize your economic return by identifying and implementing designs and techniques to enhance production through expert assessment and recommendations

Prepare and respond effectively to the unthinkable

Minimize business, safety, and environmental impact by implementing proven measures to prepare your organization for an incident, and regain control of an uncontrolled hydrocarbon release effectively

Services offered by Add Energy

- Well Engineering
- Production Optimization
- Well Integrity
- Well Control
- Well Kill Support
- Blowout Contingency Planning
- Reservoir and Flow Simulations
- Independent Verification
- Well Examination
- Well Management

Our experience

Showcasing expertise through proven results and track record

Our well engineering and management experience spans across decades and have been applied globally for onshore, offshore, HPHT, ultra-deep-water, highly regulated and remote locations and environments. Some of our highlights include:

Saved

\$12M on one well through design optimization enabled by our RWIS hardware solutions

\$12M

Increased

oil production by over 50% through well modifications recommended by Add Energy

50% +

Delivered

Well Kill support for more than 80 hydrocarbon release incidents worldwide

80+

Reduced

the number of wells required to meet a production target by 42% through design recommendations provided by Add Energy

42%

Safety and Risk Engineering



Our safety and risk management experts offer onsite and remote strategic advice, systems and training designed to minimize exposure to risk and management of safety for operating assets within the energy and maritime industries.

Implement effective barriers of protection

Gain full clarity of your risk profile and implement barriers of protection aligned to your operating environment



Boost performance and reliability

Assure your critical assets perform when you need them through quality data, decisions and safety barriers implemented and managed by competent systems and people

Comply with legislation and regulations

Understand what you need to do to comply with legislation and regulations to mitigate risk and avoid penalties

Create and manage a safety culture and competence

Minimize your exposure to risk and maximize effectiveness through fit for purpose training and competency assurance programs

Services offered by Add Energy

- Development of HSEQ Management Systems
- Assistance with Regulatory Approvals Process
- Risk Assessments – HAZID, HAZOP, SIMOP, ALARP workshops
- Technical Risk Evaluation
- Safety Case Development and Assessment
- Crisis and Emergency Management
- HSEQ System Audits
- Strategic Security Management
- Fire and Explosion Analysis
- Performance Standard Development
- Development of HSE documentation
- Facility Surveys and Audits
- HSEQ Training

Our experience

Showcasing safety and risk management expertise through proven results and track record



Decarbonization and Energy Transition



Assure your renewable energy projects are effective or accelerate your transition to net-zero by relying on subject matter experts to assess, evaluate, and support the implementation of your carbon reduction initiatives through proven processes and independent verification.

Viable Options

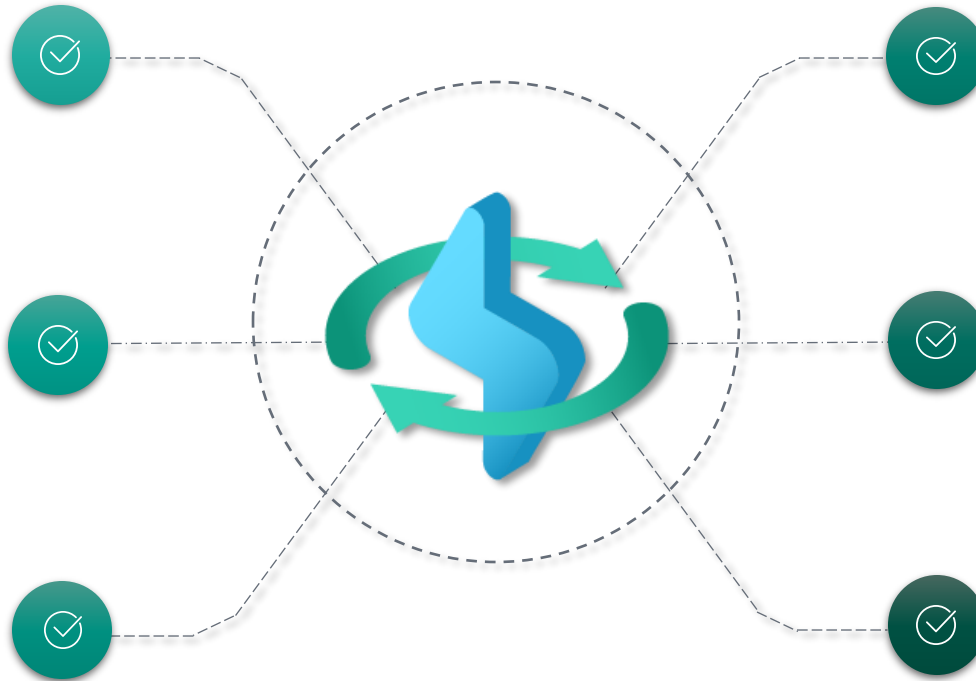
A conclusive business case detailing feasible decarbonization strategies for your business

Investment Strategy

Gain a clear understanding of the investment requirements for carbon reduction and how they can be optimized

Project Sanction

Identify viable options to reduce carbon emissions to get new projects sanctioned and optimize investment



Compliance Assurance

Assure compliance with international standards relating to integrity, decarbonization and asset management

Cost and Time Efficiencies

Rely on experts to deliver a cost and time effective solution for kick starting or accelerating your decarbonization journey, without impacting day to day operations

Safety Integrity

Develop and implement decarbonization tactics that assure safety integrity through use of proven processes

Services offered by Add Energy

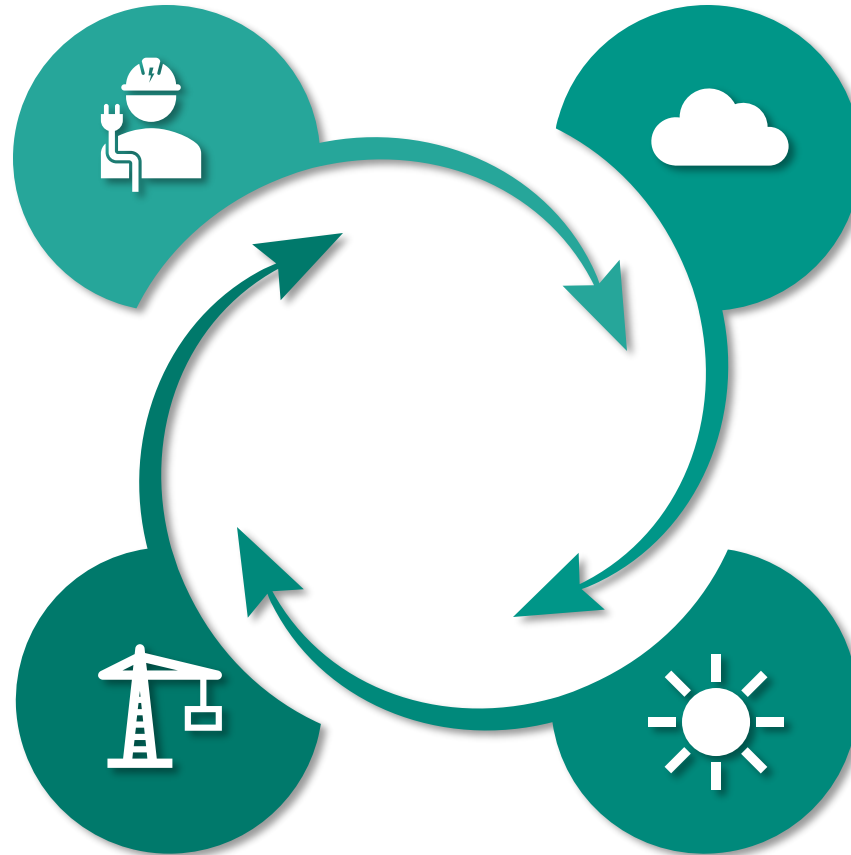
- Technical and Commercial “green energy” Feasibility Studies (cost benefit analysis)
- Review of Existing Infrastructure to Determine Options to Reduce Carbon Footprint
- Well Integrity for CCS and Geothermal wells
- Well Management and Well Engineering of CO2 storage and Geothermal wells
- Safety audits and HSE planning and reviews
- Maintenance, Integrity and Inventory Management for Renewable Energy Plants

Our experience

Showcasing our decarbonization expertise through proven results and track record

Geothermal

Experience in delivering well planning end execution concepts for geothermal wells



CCS

Currently delivering concept and well specific evaluations for CO2 storage

Biomass and waste to energy

Extensive experience of delivering asset management, maintenance, integrity and materials management regimes for multiple renewable energy power plants

Solar and Microgrid

Experience of developing asset management strategies and systems for microgrids generated by solar power

The Add Energy Academy

We offer learning and development programs, tailored to different levels in an organization, from leadership to front line workers, delivered online and in-person, guaranteed to:

Cost-effective

Our subject matter expert instructors offer a cost-effective and proven solution to enhancing the knowledge and skills of a workforce

Assure an ROI

We verify learning through instructor led testing and assignments to assure merit

Optimize spend

We can conduct competency gap assessments to identify risk and determine where investment should be made to assure ROI

Offer versatility

We provide training tailored for different levels within an organization to enhance the relevance and the overall learning experience

Align to your business

We can align and develop learning materials to your company standards, goals, procedures, and local regulations

Assure contingency and preparedness

We can identify future knowledge requirements and develop roadmaps to avoid loss of experience and skill



Course topics offered by the Add Energy Academy

- Operations and Maintenance Training
- Drilling and Well Engineering Training
- Safety and Risk Management Training
- Leadership Training
- E-learning

ADDVisors

We offer face-to-face and remote adhoc technical guidance, studies, assurance, verification and advice ranging from a 1 hour video conference to workshop facilitation and project consulting to gain support for an immediate issue or a business improvement initiative. Our ADDVisor solution will enable:

Access to expert advisory across multiple functions

Access a pool of consultants, subject matter experts, technical authorities and seasoned engineers across different facets of a business, including asset management, process safety, risk management, drilling, well engineering, well management and energy transition.

Independent expertise and verification

Utilizing expert knowledge and invaluable insights gained from decades of experience, our ADDVisors can offer guidance, validation and verification on existing initiatives or consultancy advice to identify and implement optimization opportunities.



A cost effective solution to manpower and expert needs

Choose when you need support, how long for, what type of support you need and what you need us to do to meet your project and business objectives in the most efficient and cost effective way possible.

Guaranteed results

Being able to utilize a flexible ad-hoc service as opposed to recruiting additional resources. We enable our clients to have full control over the duration and support deliverables required, assuring spend is minimized.

ADDVisor topics

- Asset management
- Maintenance and materials
- Integrity management
- Process safety
- Risk management
- Drilling
- Well design
- Well engineering
- Well management
- Well integrity
- Blowout contingency
- Well kill
- Decarbonization
- Energy transition
- Production optimization
- Decommissioning

ADDVisor support methods

- Hourly remote advice
- Workshop facilitation
- Technical reviews
- Technical response
- Technical studies





Our software and hardware solutions

Our commitment to innovation

Collaborating with experts to revolutionize the way businesses operate

Add Energy's innovation experts utilizes decades of experience to design technology solutions that help businesses drive performance and minimize risk.

As a consultancy and engineering business we are uniquely positioned to gain access to insights into challenges plant operators and businesses face, enabling us to research, design and develop software and hardware solutions that are capable of solving real-world industry challenges.

We work in collaboration with industry and academia to assure our solutions are at the forefront of technology and innovation. Our affiliates include:



Academia

The University of Salford who specialize in developing world-class software engineers and cyber security systems



Industry

Oil and gas operators, power generation facilities and subsea hardware manufacturers including Shell, Uniper, Stena Drilling, SBM and Trendsetter Engineering



Government and industry organizations

Knowledge Transfer Partnership, Innovate UK and Step Change for Safety



The value our software delivers

Solving problems and enhancing experiences through the development of innovative technology



Safety assurance

Using analytics and insights to help businesses identify and mitigate risk

Business efficiencies

Harnessing technology and data to unlock opportunities to save time and money

Production and profitability

Gaining access to the insights required to optimize performance and mitigate non-productive time

Environmental protection

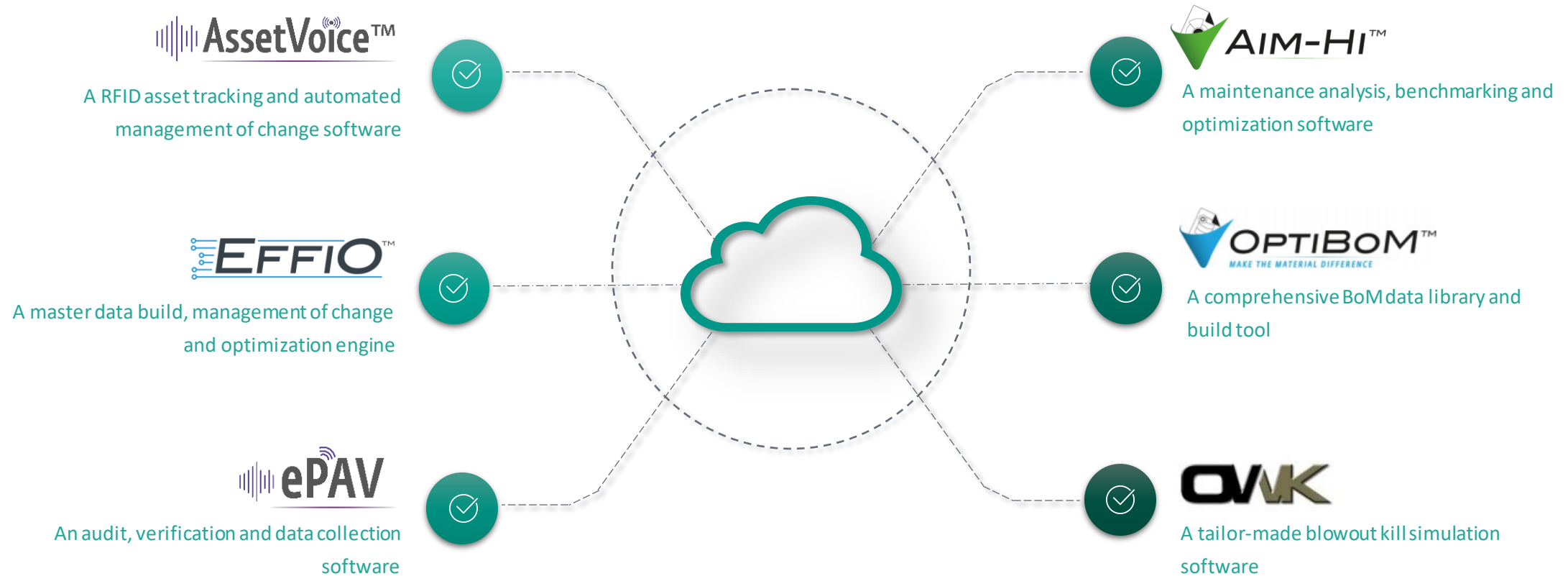
Channelling data insights to make informed decisions to reduce the environmental impact of operations

Contingency and control

Optimizing response time and minimizing impact during a hydrocarbon release

Our software

Our suite of award-winning software has been designed to improve the interface between people and data, harnessing machine learning and industry 4.0



Our hardware

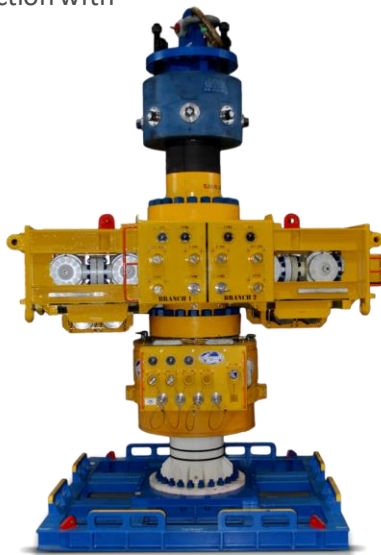
Cutting edge engineering and hardware with dual functionality



Add Energy, in collaboration with Trendsetter Engineering, has designed and built the worlds only single relief well kill hardware, the RWIS (Relief Well Injection Spool).

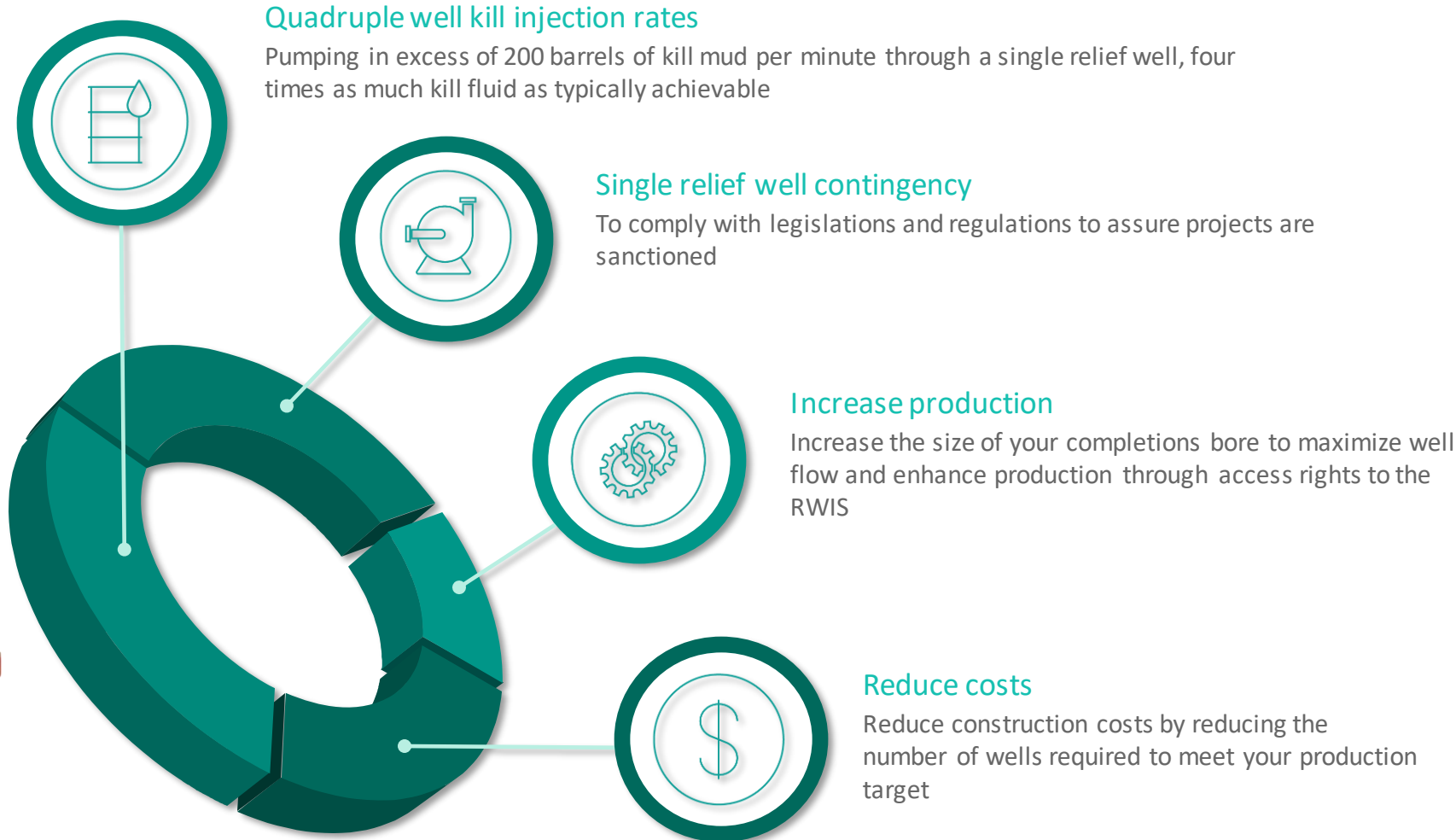
The RWIS is a patented specialist subsea hardware that enables:

- ✓ Rapid control and kill of a hydrocarbon blowout via a single relief well safely and effectively
- ✓ Completion size of the well bore to be increased, to increase production with less resource



RWIS
RELIEF WELL INJECTION SPOOL

ae add energy



The background is a solid teal color. Overlaid on this is a complex, light-colored wireframe mesh pattern that forms a series of undulating, mountain-like shapes across the entire frame. On the left side, there is a thin, vertical white line that extends from the top to the bottom of the text area.

Our people

Expertise and experience



A global team of 175 technical experts with over 2,500 years of experience combined. Our team comprises of:



Technical and Engineering Specialists

- Technical Authorities, Subject Matter Experts and ADDVisors
- Consultants
- Senior Engineers
- Engineers and Graduate Engineers



Data, Technology and Innovation Specialists

- Data Scientists
- Data Analysts
- Software Engineers
- Research and Development Specialists
- Technical Assistants



Leadership and Business Support

- Executive Vice Presidents
- Vice Presidents
- Business Development and Marketing
- Project Support and Document Control
- Finance and Administration

Corporate highlights



30+ years of experience in well engineering and drilling operations management



70+ maintenance, integrity and materials management experts located across the globe

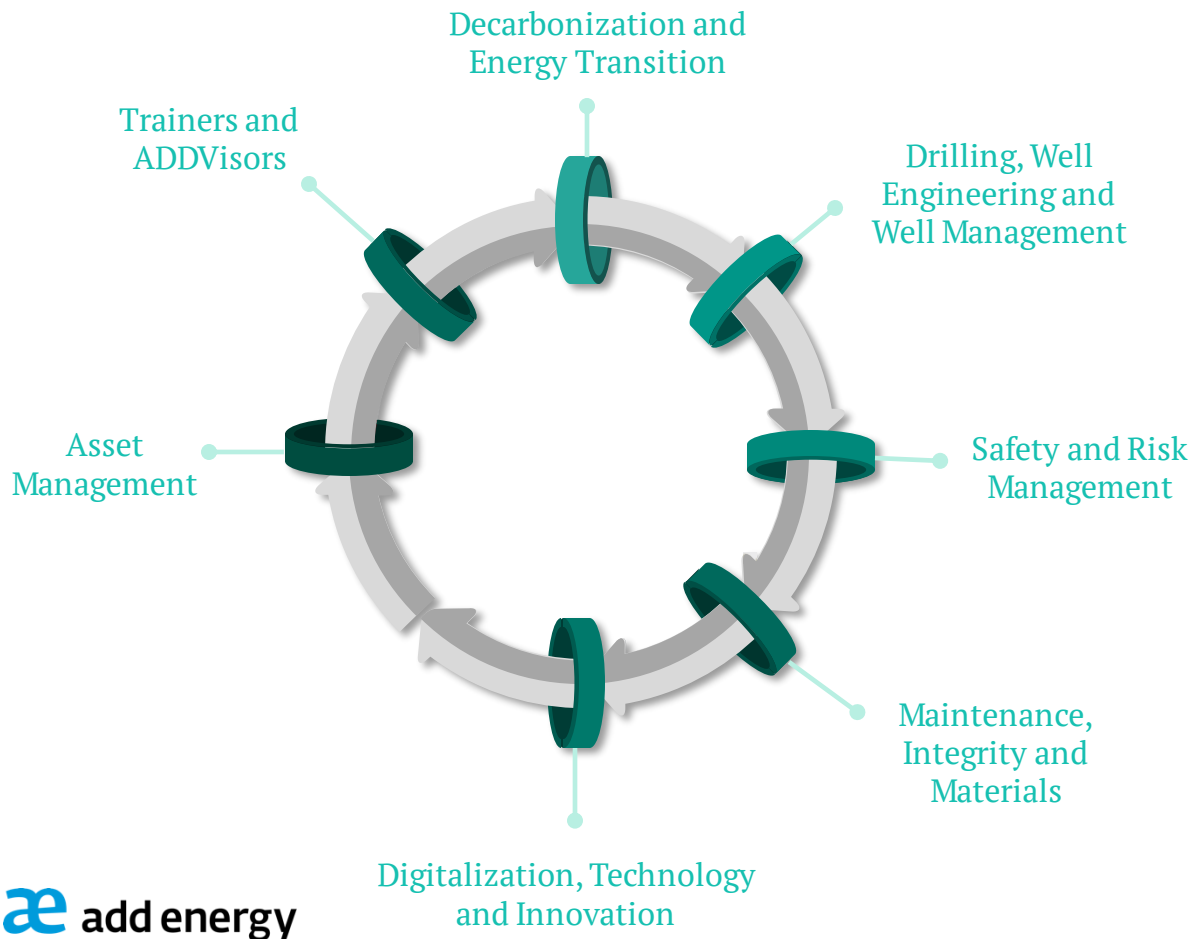


80+ well kills and investigations, including being senior advisors for the Macondo, Montara, and Elgin Franklin blowouts

One team, one progressive energy

ONE.PROGRESSIVE.ENERGY

One team with a shared vision who are progressive forward-thinking people that are energized to deliver across multiple facets:



People highlights



Extremely **low employee turnover** with half of our work force being with us since the original companies' inceptions



A workforce of **highly** competent and educated personnel possessing PhDs, Masters and University Degrees



90% of our business is repeat business, delivered by loyal people for loyal, and satisfied customers



Our credibility and track record

Client testimonials



Client: BP

"Plant reliability is one of the most noticeable outputs of this project; not only are we setting record reliability statistics, but we are achieving this with optimized levels of maintenance, done at the right time, in a globally consistent manner."

Damien Dunne, Director of Maintenance



Client: US Federal Court for the Macondo/Deepwater Horizon Investigation

"The court found Mr. Emilsen (Add Energy's Blowout Specialist) generally credible and believes that his modelling was accurate"

Judge Barbier, Macondo Federal Court Case



Client: Lundin

"I'm very pleased with the process and the high quality of the report. Several very interesting and pertinent points that will highly benefit our organisation and our ability/willingness to continuously improve."

Alex Schneider, Chief Operating Officer



Client: Woodside

"Add Energy has been a great partner for Woodside throughout the year and that is always due to good people working to do the right thing"

Gary Jones, VP Drilling and Completions

Our credibility and achievements

Our credentials

- ✓ Delivered solutions in **every region** of the world
- ✓ Over **2500** projects delivered since our formation
- ✓ Transferred expert knowledge and proven processes to **15+** green energy production projects
- ✓ Providers of the **world's largest** asset management improvement project
- ✓ **Co-developers and designers** of an offshore CCS hub in Australia
- ✓ Winner of the prestigious **Queens Award** for International Trade
- ✓ An **award-winning** software innovation and development team
- ✓ **Trebled** our workforce over a period of 12 months

Delivered over
2500
projects

15+
green energy
projects

Worked in
every region of
the world

Our results

- ✓ Increased Oil production by over **50%** through well modifications recommended by Add Energy
- ✓ Written over **100** safety cases for blue chip clients
- ✓ Reduced inventory costs by **\$74M** through enrichment of BoM data
- ✓ Increased drilling uptime by **11%** through reliability analysis
- ✓ Identified ability to generate **\$1.29M** per year, per well through repurposing to Co2 storage
- ✓ Enhanced plant production uptime by **4%** through availability modelling

Increased
production by
50%

Reduced costs
by
\$74M

Over
100
Safety Cases

Get in touch

Ole Rygg

CEO

Email: ole.rygg@addenergy.no



Add Energy Office locations



STAVANGER, NORWAY



OMAN, MUSCAT



HOUSTON, USA



PERTH, AUSTRALIA



OSLO, NORWAY



ABERDEEN, UK



CALGARY, CANADA