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Electrifying The Oil And Gas
Electrifying the oil and gas value chain A century of industry achievements and technology breakthroughs to electrify processes from upstream to downstream High-power electrical drives High-speed and integrated compression solutions Subsea electrification Energy Management Systems Intelligent control platforms Predictive power asset analytics 4 5

Electrifying the Oil and Gas Industry - GE Power Conversion
Electrification of oil and gas platforms on the UK continental shelf (UKCS) should play an important role in efforts to achieve this target, as a Rystad Energy analysis shows that UK oil and gas...

The Electrification Of UK Offshore Oil & Gas | OilPrice.com
The British government has set a goal to reach net zero emissions by 2050. Electrification of oil and gas platforms on the UK continental shelf (UKCS) should play an important role in efforts to achieve this target, as a Rystad Energy analysis shows that UK oil and gas production will remain significant for decades to come. After a small decline over the next several years, output forecast to rebound to approx. 2 million barrels of oil equivalent per day by around 2035.

UK needs to electrify its rising oil and gas output to ...
Azeez Mohammed, GE. With the recovery in oil prices, deepwater and ultra-deepwater oil and gas (O&G) projects are the focus of renewed interest. Project viability will come down to a continued focus on cost, but also productivity through high-performing assets. And electrification is set to drive a dramatic impact of these high-tech production facilities for more efficient operations.

Electrification In New Era For Oil, Gas Industry | Hart Energy
Into the deep: electrifying subsea oil and gas operations. In some of the most challenging conditions found anywhere in the world, far offshore, and deep below the waves, Saft batteries deliver safe and reliable power for the new generation of electrified subsea oil and gas projects. Even as the world pushes for renewable energy, the global demand for fossil fuels is still rising.

Into the deep: electrifying subsea oil and gas operations ...
The oil and gas industry is largely run on electricity generated on site using gas turbines and currently accounts for approximately one quarter of Norway's total carbon emissions. Troll A was the first platform on the Norwegian continental shelf to be electrified, back in 1996. The Gjøa field was electrified from the very outset.

Electrification of platforms - equinor.com
UK emissions from oil and gas production in the North Sea are the highest among the region's producers, reaching 13.1 million tonnes of CO2 in 2019, according to Rystad Energy emission data.

Top North Sea emitter UK needs to electrify its rising oil ...
Electrifying the Johan Sverdrup oil and gas field 23 July 2018 (Last Updated July 20th, 2018 16:06) In May, Norwegian oil producer Equinor, formerly known as Statoil, began laying a cable that will supply onshore power to the gigantic Johan Sverdrup field.

Electrifying the Johan Sverdrup oil and gas field
B.C. will offer incentives for natural gas producers to move onto the electricity grid and lean on the Trudeau government to fund new transmission lines as part of an aggressive plan to electrify its emissions-heavy oil and gas fields. In an interview Nov. 29, Energy Minister Bill Bennett laid out the government's new plan to slash oil and gas sector emissions—an effort that would lead to a boom in transmission line construction in Northeast B.C. and have implications for independent ...

B.C. unveils aggressive plan to electrify natural gas ...
Electrification is eco-friendly and cost-effective, and hence represents a shortcut to a more sustainable and profitable oil and gas industry. ABB is of the opinion that electrification must be assessed from three

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Electrification of petroleum installations Commercially ...
The British government has set a goal to reach net-zero emissions by 2050 and electrification of oil and gas platforms on the UK continental shelf (UKCS) should play an important role in efforts to achieve this target. A Rystad Energy analysis shows that UK oil and gas production will remain significant for decades to come.

UK needs to electrify oil & gas platforms to reach net ...
Solutions include electrifying oil and gas assets, reducing flaring and venting of gas during production, increased efforts to detect and stem methane leaks, and efficiency gains through digitalization.

Deep decarbonization of the world's energy system still 15 ...
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Electrifying The Oil And Gas Industry Ge Energy
Electrification of oil and gas platforms on the UK continental shelf (UKCS) should play an important role in efforts to achieve this target, as a Rystad Energy analysis shows that UK oil and gas production will remain significant for decades to come.

Top North Sea emitter UK needs to electrify its rising oil ...
Forbes reports that the world's five largest publicly owned oil and gas companies spend about $200m annually on lobbying to control, delay, or block climate-motivated policies, especially in the US.

Big Money drives transition in face of old resistance ...
In traditional wells, hydraulic fluid flows from a facility above the surface of the water into a subsea well through specialised pipes, which is used to power the well's hydraulic equipment, which pumps the oil back to the surface. By electrifying the system, high-pressure equipment such as the hydraulic pipes are removed, reducing the risk of explosions arising from faulty pipes, and eliminates the threat of a pipe leaking, and spilling hydraulic fluid into the surrounding ocean.

Electrifying the subsea industry: companies leading the way
Electrifying Oil & Gas The Industry's Future and Powering the World Escalante Power Plant – Prewitt New Mexico The oil and gas industry is enemy #1 for the environmental movement and the events of 2020 will only add momentum to replace fossil fuels. Fossil fuel or hydrocarbons are not the focus of the problem, it is the emissions. Carbon ...

Electrifying Oil & Gas Post
Matching intermittent supply from renewables with growing demand in the ever-electrifying world is where the opportunity lies — and where the oil majors should focus.

Most Americans consider electricity essential to their lives, but the historic disparity of its distribution and use challenges notions of a democratic lifestyle, economy, and culture. By the beginning of the twentieth century, substations, wires, towers, and poles had followed migrants westward as the industrial era?s most prominent symbols of progress and power. When private companies controlled power production, electrical transmission, and distribution without regulation, they argued that it was not ?economically feasible? for many ethnic and rural communities to access ?the grid.? Yet, government agents continued to advocate electrical living through federal programs that reached into and across farming communities and American Indian reservations to homogenize and assimilate them through urban technologies. In the end, however, rural electrification was a locally directed process, subject to local and regional issues, concerns, and parameters. ø Electrifying the Rural American West provides a social and cultural history of rural electrification in the West. Using three case studies in Arizona, Leah S. Glaser details how, when examined from the local level, the process of electrification illustrates the impact of technology on places, economies, and lifestyles in the diverse communities and landscapes of the American West. As today?s policy-makers advocate building more power lines as a tool to bring democracy to faraway places and ?smart grids? to deliver renewable energy, they would do well to review the historical relationship of Americans with electronic power production, distribution, and regulation.

An optimistic--but realistic and feasible--action plan for fighting climate change while creating new jobs and a healthier environment: electrify everything. Climate change is a planetary emergency. We have to do something now—but what? Saul Griffith has a plan. In Electrify, Griffith lays out a detailed blueprint—optimistic but feasible—for fighting climate change while creating millions of new jobs and a healthier environment. Griffith's plan can be summed up simply: electrify everything. He explains exactly what it would take to transform our infrastructure, update our grid, and adapt our households to make this possible. Billionaires may contemplate escaping our worn-out planet on a private rocket ship to Mars, but the rest of us, Griffith says, will stay and fight for the future. Griffith, an engineer and inventor, calls for grid neutrality, ensuring that households, businesses, and utilities operate as equals; we will have to rewrite regulations that were created for a fossil-fueled world, mobilize industry as we did in World War II, and offer low-interest "climate loans." Griffith's plan doesn't rely on big, not-yet-invented innovations, but on thousands of little inventions and cost reductions. We can still have our cars and our houses—but the cars will be electric and solar panels will cover our roofs. For a world trying to bounce back from a pandemic and economic crisis, there is no other project that would create as many jobs—up to twenty-five million, according to one economic analysis. Is this politically possible? We can change politics along with everything else.

A glimmer of hope -- We have less time than you think -- Emergencies are opportunities for lasting change -- How do we know what we know? -- 2020s thinking -- Electrify! -- Where will we get all that electricity? -- 24/7/365 -- Redefining infrastructure -- Too cheap to meter -- Bringing it all home -- A mortgage is a time machine -- Paying for the past -- Rewrite the rules! -- Jobs, jobs, jobs -- Mobilizing for World War Zero -- Climate change isn't everything -- Yes, and ... -- What can you do to make a difference? -- Down the rabbit hole : climate science 101 -- Down the rabbit hole : how to read a Sankey flow chart.

"Over the next few decades, we will see a profound energy transformation as society shifts from fossil fuels to renewable resources like solar, wind, biomass. But what might a one hundred percent renewable future actually look like, and what obstacles will we face in this transition? Authors explore the practical challenges and opportunities presented by the shift to renewable energy."--Page 4 of cover.

The present study finds that electrifying transportation and heating (along with some other sectors) while decarbonizing the Colorado electricity sector will enable the reduction of economy-wide GHG emissions to below 70% of 2005 levels by 2040, while lowering both electricity and energy costs for all Coloradans. Personal vehicle fuel costs are reduced by over $600 per year (if an EV is used), household heating fuel costs are reduced by over $500 when electrified. In addition, all electricity rates are lowered by 15%, meaning those that do not electrify also benefits with lower costs amounting to $98 per year. The reduction in GHG emissions equates to Colorado exceeding all its target in HB19-1261 through 2040. The electrification of transportation and heating becomes essential in helping lower economy-wide emissions in an affordable manner. Their additions provides flexibility within the electricity grid over Colorado, which can enable more variable renewable energy sources.

Throughout the 20th century, electricity was considered to be the primary vehicle of modernity, as well as its quintessential symbol. In India, electrification was central to how early nationalists and planners conceptualized Indian development, and huge sums were spent on the project from then until now. Yet despite all this, sixty-five years after independence nearly 400 million Indians have no access to electricity. Electrifying India explores the political and historical puzzle of uneven development in India's vital electricity sector. In some states, nearly all citizens have access to electricity, while in others fewer than half of households have reliable electricity. To help explain this variation, this book offers both a regional and a historical perspective on the politics of electrification of India as it unfolded in New Delhi and three Indian states: Maharashtra, Odisha, and Andhra Pradesh. In those parts of the countryside that were successfully electrified in the decades after independence, the gains were due to neither nationalist idealism nor merely technocratic plans, but rather to the rising political influence and pressure of rural constituencies. In looking at variation in how public utilities expanded over a long period of time, this book argues that the earlier period of an advancing state apparatus from the 1950s to the 1980s conditioned in important ways the manner of the state's retreat during market reforms from the 1990s onward.

Are rooms of your house uncomfortable or unusable at different times of the year? Is your home drafty in winter? Do you get hit with a wave of heat walking upstairs in summer? Are mold or pests frequent problems in your home? Do you get big icicles in winter? Do you suspect your home is making you sick? Do you sleep better out of your house? Do you have a damp, dank basement? How about air quality problems like dust or odors? Are you ready to solve those problems? Then this book is for you. Before you can solve a problem, you need to understand what is causing the problem. This book explains how your home actually works so you can address root causes, not symptoms. We've seen far too many folks waste thousands of dollars addressing the wrong problem. Armed with this book, you can find the right pros to solve problems, understand if the work was done right, and even DIY many things yourself. This is the book I wish I had when I entered the Home Performance eld. It connects theory to action and shows real world examples of work being done and the results achieved. It assumes you're a building science novice as well as smart and willing to learn. You'll learn about how your home works, what to look for in a new heating and cooling (HVAC) system, what kinds of insulation work best and why, how to choose and install the right bath fan, and more. Everything in this book is backed up by field experience, data, and an overwhelming passion to do things right the first time.

Old-House Journal is the original magazine devoted to restoring and preserving old houses. For more than 35 years, our mission has been to help old-house owners repair, restore, update, and decorate buildings of every age and architectural style. Each issue explores hands-on restoration techniques, practical architectural guidelines, historical overviews, and homeowner stories--all in a trusted, authoritative voice.