

Fresh from the press is our second issue of "Sustain Petro-Techna Ability Newsletter". Following up on the inaugural issue, this second installment of what will be 4 quarterly releases will cover latest news and updates at Petro-Techna, a simplistic look at the Paris Agreement, the concept of vernal equinox, growing impact of sustainability within business, and our in-house community page. As always, we welcome feedback from everyone, and we hope you find this issue informative and engaging.

Sustain Petro-Techna Ability Newsletter

Volume I, Issue II

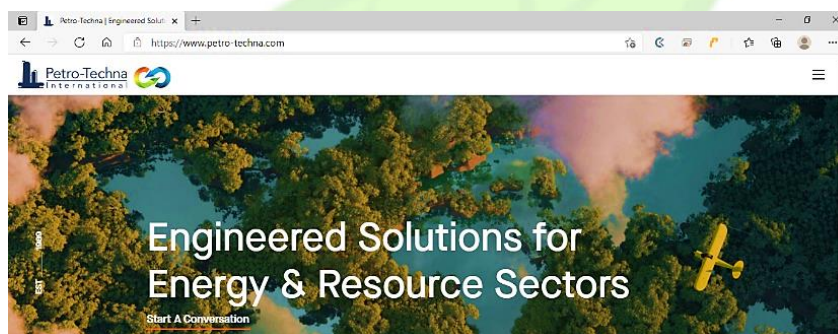
April 2021



Great News and Proud Moments of The Past Quarter for Petro-Techna

NEWS #1

Petro-Techna's **NEW WEBSITE** has been launched. Building on our past towards a sustainable future, we hope this website showcases our commitment and capabilities. Click www.petro-techna.com to check it out.

**NEWS #2**

As part of our mission of **"Enabling Responsible & Sustainable Development of Natural Resources"** we are proud to present our new logo TM. The "Infinity" shape symbolizes the symbiotic nature of our aspirations. Use of oil as an energy source to be balanced by reuse of produced water, sour gas treatment to green energy source.

**NEWS #3**

We are proud to announce that the **United Nations Global Compact (UNGC)** has accepted our application as a participant in the Compact. This is a vindication of our support and advocacy of the **UNGC and its Sustainable Development Goals (SDGs)**. Going forward, as participants on UNGC we will communicate our progress on the UNGC's ten principles on an annual basis to hold ourselves accountable for a robust and ambitious framework in terms of environmental, social, and governance (ESG) criteria.

WE SUPPORT

Sustain Petro-Techna Ability

NEWS #4

In other news, we are proud to announce that Petro-Techna was recognized as a responsible business with a main purpose toward sustainable resource production by **Export Development Canada (EDC)**. Petro-Techna will be featured in their 2020 annual report that will be published this month. We should collectively feel pride in this accomplishment. It is just the beginning and we all have our part to play in pursuit of our goal to be a world class leader in offering sustainable solutions.

NEWS #5

As an update on our “**Research & Development**” partnership with **Lambton College**; currently we have two projects in progress supported by the **Natural Sciences and Engineering Research Council of Canada (NSERC)**. Both projects focus on improving the environmental footprint of the energy resource sector with an ultimate target of practical and economical innovative solutions. We are excited with the progress made so far and stay tuned for updates in the coming weeks.



NEWS #6

We marked **World Water Day** on 22 March to promote and raise awareness around sustainable water resource management through the release of an information paper.

The Canada Arab Business Council Newsletter for March 2021 features our information paper and it can also be accessed [here](#).





DID YOU KNOW????!!!!!!



We are sure you all have heard about the Paris Agreement in some context or the other. But have you ever wondered what exactly is this agreement and how does it impact us? First the easy part: The Paris Agreement is a global pact adopted by practically every country in 2015 to address the negative effects of climate change. How? you may ask. Control carbon emissions from human activity so that the rise in this century's global average temperature will be limited to a maximum of 2°C above pre-industrial levels. See easy, or is it? Let's break it down to the basics:

STRATEGY: Limit global average temperature rise below 2 degrees Celsius. To achieve this, Greenhouse Gas (GHG) emissions need to hit their peak as soon as possible. This to be done on a voluntary basis through Nationally Determined Contributions (NDCs). Various nations have various plans and there are no penalties for missing targets (so honour system).

TRACKING: Completely transparent process. All countries to provide actions and progress towards climate change by 2024. An expert panel will assess progress of each country and provide recommendations on improvements with member countries to revisit pledges every 5 years.

SUPPORT: Perhaps the most controversial part of the pact, the agreement asks richer countries to help poorer countries by sending US\$100 billion in aid by 2020 and increasing the aid in the future.

Sustain Petro-Techna Ability

RE-EVALUATION: The five-year anniversary of the agreement was on December 12, 2020. 70 Heads of State attended the digital Climate Ambition Summit where world leaders presented their commitments to achieving the goals of the Paris Agreement. The progress was reported in [2020 Yearbook of Global Climate Action](#).



The next United Nations Climate Change conference is scheduled to be held in Glasgow, Scotland, in November 2021 under the presidency of the UK. Since the Paris agreement, it is the first time that parties are expected to pursue enhanced ambitions.





NEW CONCEPT #2 - VERNAL EQUINOX

What is the vernal equinox?

The vernal or spring equinox is the astronomical first day of spring season in the Northern Hemisphere, which occurs when the Sun crosses the equator line, heading north in the sky, equalizing the daytime and nighttime. As the season progresses, the daytime length increases and nighttime length decreases. This year, the spring equinox was on Saturday, March 20 at 5:37 A.M. EDT.



Flora – by Sandro Botticelli, c. 1480 – is a Roman goddess of the spring season and symbol for nature and flowers.

Shared ancient tradition, still relevant today?



For thousands of years, many cultures in the world have welcomed and celebrated the onset of spring, particularly ancient peoples after cold days of winter without indoor heating. Every March, in ancient Greece and Rome, Dionysus was celebrated as the god of rebirth and fertility associated with spring. Several countries including Egypt, Libya, Sudan, Iraq, and Syria celebrate Mother's Day on the vernal equinox. In Egypt, Sham Ennessim is also a national holiday marking the spring. Holi is a popular ancient Hindu festival predominantly celebrated in India to appreciate spring, colours, and love. In Japan, Shunbun no Hi is celebrated for seven days and on the vernal equinox day families have reunions and visit their ancestral graves. In Mexico, the celebration occurs at the El Castillo pyramid,

Sustain Petro-Techna Ability

which originated from the Mayans' celebration of the return of the Sun serpent. People in China and the US have shown their enthusiasm for spring by the art of egg balancing, ostensibly because of the gravitational pull of the sun or moon. In England, some people go to Stonehenge on the vernal equinox day at dawn to watch the sunrise.



The observance of Nowruz, or Persian New Year by more than 300 million people – for over 3,000 years marks the start of spring and renewal of nature. Promoting values such as peace and mutual respect among people the climax of Nowruz is Haft-seen (7S's), which is an arrangement of seven symbolic items whose Persian names start with the letter S. These are: Sabzeh (wheat

sprout) – rebirth & growth, Seeb (apples) – health & beauty, Senjed (dried oleaster berries) – wisdom & love, Samanu (wheat pudding) – strength & justice, Somaq (sumac) – sunrise, Serkeh (vinegar) – patience & age, and Seer (garlic) – medicine, health, and cleansing of body and environment. As part of celebrations people take grown wheat sprouts and throw them into a running water to symbolically retain their connection with the nature.

Such symbolic festivals clearly illustrate the inseparable link between humans and nature while raising the significance of the concept of sustainability which was relevant even in ancient history.



SUSTAICONOMY

RISE OF GREEN BILLIONAIRES

As the climate crisis accelerates, the world has begun recognising the perils of global warming. With crisis has come opportunity and Wall Street firms have acknowledged EV maker's potential as CEO of Tesla – Elon Musk – has brought [a new breed of billionaires](#) across the globe creating empires with fastest-growing fortunes on the shoulder of sustainable, renewable, and clean technologies, transitioning from traditional energy resources. You may see the Bloomberg Green's ranking of the world's top climate billionaires [here](#).



BIG NEWS Elon Musk has announced [a \\$100 million competition](#), administered by the XPRIZE Foundation and backed by the Musk Foundation's donation, for anyone who can come up with the best solution to develop efficient and inexpensive carbon dioxide removal (CDR) technologies with a capacity of capturing one ton of CO₂ per day and the removal scalability up to 1 billion tons a year. The entries for the contest prize (the largest incentive prize in history) will open on 22 April 2020 (Earth Day). Then in 2025, three winners will be announced on the same day for three separate prizes. So, what are we waiting for?! How can we implement carbon capture technology in our existing sophisticated engineering designs?



No Random Miracle Canadian Energy Market in Action

Ontario went coal-free in 2014 as the first North American government to eradicate coal-fired electricity power plants, paving the way for a greener electricity system. Now following Ontario's footsteps, **burning coal for power will be stopped in Alberta by 2023, seven years ahead of the original plan** (as of 2015, roughly half of Alberta's electricity came from coal). Consequently, the greenhouse gas emissions of power generation sector in Alberta will be cut by more than half. This reduction is equivalent to taking all the cars and trucks in Alberta, Saskatchewan, and British Columbia off the road. To learn more about this news [click here](#).



A lot has been accomplished in energy market in a short time and this rapid transition is a direct result of governmental legislation, to be specific, **CARBON TAX**. In simple words, the dirtier an operation, the more you would pay. Hence, a ready supply of cleaner and cheaper natural gas in Alberta has made the end of coal possible, swiftly drawing **Canada toward global leadership in clean energy sector**. Check out [here](#) to read about Canada's position in sustainable economic accomplishments with a low carbon future.

PETRO-TECHNA COMMUNITY PAGE

GOOD DEED OPPORTUNITIES THROUGH LOCAL INITIATIVES

Domestic violence is an unfortunate reality that faces our society. With the recent pandemic enforced lock downs, this issue has become even more prominent. Every year on International Women's Day (IWD), Petro-Techna supports local initiatives for women rights. One of these initiatives is "Restoring Smiles". Led by Dr. Borna Meisami Commemorative Foundation, "Restoring Smiles" helps victims of domestic violence rebuild their lives. We encourage you to learn more about their mission and participate through [volunteer opportunities](#) or [financial support](#).



RECOLLECTING SUSTAINABILITY TIPS:



- Upgrade your lighting to LED or CFL bulbs,
- Make your online shopping eco-friendly by buying from local bricks and clicks businesses
- While traveling (or away from home), remember to turn down the thermostat and unplug appliances.
- Make "energy saving" a family discussion!

Sustain Petro-Techna Ability



Share with us an example of something you have repurposed (i.e., reused an item for a purpose other than its original intended use by turning it into something new and extending its lifespan). You may send a photo or simply describe it to us. You know the drill; \$50 Gift Certificate will be given to the elected winner. So, **HURRY UP!**

Your participation matter to us. We are already noticing the growing awareness in our community. Thanks to you, here are two successful examples triggered by your wonderful responses about recycling K-Cup® pods, or alternatively, using reusable pods.



Special Event of This Month

2021 Virtual Wall Street Green Summit

April 26-30, 2021

[Register Here](#)

Description: It is one of the longest running and most comprehensive events that covers cutting edge content and the latest industry developments, and features the leading practitioners in sustainability.

We promise to always have interesting contents uploaded on the channel waiting for you to read or watch. Nevertheless, we are always seeking people who provide feedbacks and get involved in our sustainability mission, so please email us at sina.fard@petro-techna.com or post your great ideas on [our channel](#).