

Renewable Energy Work Group Agenda

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| Meeting Date: 7/06/2022 | Start: 6:10 |
| Time: 6-7pm | Attending: Dan Brosier, Tom Armstrong, & David Jurina |
| Location: Gail Borden Main Library; Meeting Room | Adjourn: 7:00 |
| 1) Approval of Minutes <ul style="list-style-type: none"> • 5/25/2022 | Moved by David Jurina, second by Dan Brosier. Unanimously approved |
| 2) Discussion Items Areas of Interest: <ul style="list-style-type: none"> • Solar PV and Thermal: goals and program ideas • Wind: goals and project ideas • Geo-exchange: goals and project ideas • Hydro-electric: goals and project ideas • Bio-fuels/Biomass: goals and project ideas • Hydrogen: fuel cell – goals and projects • Battery Storage Technology • Nuclear power: support or phase out? | <p>Solar: Discussed the difference between PV and Thermal solar, Elgin advantages and disadvantages: PV – needs large area for array (small lots or limited roof area), is affected by shade compromising production (Elgin isn't well suited to PV due to our extensive tree canopy) and produces power when electrical demand is highest. Thermal – is best suited for water heating (best when there is a high demand for household or business hot water), needs a smaller array to meet demand, and need electric back-up in the winter months. Community buy is best economical way to purchase for solar projects. Reduces cost per KW by \$0.25 (\$3.00/KW to \$2.75/KW).</p> <p>Wind: Question why there isn't any community wind farm projects like the solar farm community projects.</p> <p>Geo-exchange: Is the best renewable to replace Natural Gas fired equipment in existing homes and businesses.</p> <p>Hydro: The dams on the Fox River are being removed, whereby eliminating any potential hydro-electric projects.</p> <p>Bio – Could be achieved at the municipal level, needs scale to be cost effective.</p> <p>Hydrogen: Fuel cells are very costly, wait for technology to improve and costs to reduce.</p> <p>Battery Storage: Needed for renewable energy sources, but technology is currently limited. Depends largely on rare earth minerals.</p> <p>Nuclear power: Is still needed as an additional source of power.</p> |
| 3) Other Business <ul style="list-style-type: none"> • How better to promote our sponsored Solar Power Hours | No other business was discussed due the hour meeting time expiring. |

- Work Group membership recruitment; roles and expertise
- ComEd City Contract
 - Elgin Peak Energy Demand (baseline)
 - Power Grid: learn limitations and planned improvements

Next Meeting: 8/03/2022