

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the left and right sides of the page, framing the central text. The overall aesthetic is clean and modern.

# Solar Panels

## Proposal



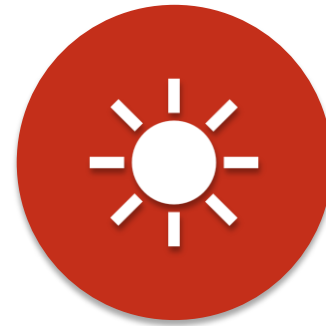
**In a previous family forum we discussed how we could demonstrate our love for God's world in practical ways.**



**One of these ways is how we meet our energy needs.**



**We currently buy our electricity from Bristol Energy on a green tariff.**



**We could install Solar Panels to generate electricity.**

# BACKGROUND

# SOLAR PANELS

- ▶ Technically feasible.
- ▶ Generate more than we need in summer months which we would sell back to the grid.
- ▶ Do not generate enough in the winter months so we would continue to buy “gap” supply from the grid on a green tariff.
- ▶ Would cost £18,700 to install. Over 20 year panel life the total net cost of the panels is the same as if we continued to buy all electricity from the grid.

# THE ENVIRONMENTAL CHOICE

- ▶ **Option A - Buying electricity from a supplier on a Green tariff requires that energy supplier to source renewable energy sufficient to match all Green electricity bought. This supports the growing market for smaller renewable generators, but our annual demand for electricity remains the same, and it relies on someone else installing the solar or putting up a wind turbine.**
- ▶ **Option B - Installing Solar Panels mean we will import less energy from our supplier. We will therefore put less demand on the electricity grid. We will also be producing solar electricity for our use and others. This helps to reduce the average carbon content of the grid, and it reduces the load on the transition system -> less electricity has to be 'transported' around.**

# THE ENVIRONMENTAL CHOICE

- ▶ In the coming years, we need to decarbonize our whole energy system. As a developed economy, the UK has a lot of infrastructure that needs to be decarbonized. There is a limit to what we can do by switching to a green tariff (option A), which can be considered as a local 'carbon offset' scheme.
- ▶ Eventually, all towns/cities/regions will need to generate a high proportion of their energy needs locally. This will result in a low-carbon, highly resilient system, which will be good for the planet and for mankind.

# Issues

- ▶ Requires planning permission, discussions so far have not ruled out Solar Panel installation.
- ▶ Need to be installed by 31 March to benefit from income from Feed In Tariff - Time is of the Essence
- ▶ Need an Energy Performance Certificate - which we would do regardless
- ▶ Size of expenditure needs to be put to the Family Forum

# Next steps

- ▶ TBC Family Members to pledge financial support as an indication of desire to proceed. Submit pledges to TBC Office.
- ▶ To do this by 29<sup>th</sup> November (3 weeks from now)
- ▶ Full proposal available from TBC Office (and tonight in foyer)
- ▶ Questions to Danny Bonnett or Mike