

# Appendix A: Completed Energy Efficiency Projects for the Council's own Estate and Services

## Carbon Management Plan 2010 – 2015

### Electricity:

Electricity consumption reduction by nearly 5% at the Town Hall in part attributed to IT upgrades.

A 100-kw solar photovoltaic system was installed on the Tennis centre roof of the Tunbridge Wells Sports Centre in September 2014 at a cost of £105,000 and supplies approximately 30 per cent of the building's electricity needs. By summer 2020 the net income stood at £104,382. (Break-even was estimated to be around yr5-6). 594,391 kWh electricity produced to date and 325,027 kg of carbon dioxide (CO<sub>2</sub>) saved by not using electricity from power stations.

Variable Speed Drivers installed at Tunbridge Wells sports centre they helped contribute to the 25% reduction in electricity consumption

### Lighting:

A new LED lighting scheme was implemented at the tennis centre located at the Tunbridge Wells Sports Centre in 2013. At the time it was the first scheme of its kind in the south east. In its first few months of operation delivered electricity savings of over 30 per cent for the tennis centre building. The new lighting uses higher efficiency LED lamps and daylight and occupancy controls.

Crescent Road LED lighting replacement of 24/7 operating incandescent lighting with proximity-controlled LED equivalents completed 2018. This project was estimated to reduce energy consumption by 68% and reduce maintenance cost and activity.

TN2 Sports Hall lighting LED replacement.

Royal Victoria Place car park LED lighting replacement scheme to reduce energy consumption by 65%

North Farm depot spotlights to be replaced for LED equivalents with predicted 55% reduction in consumption of electricity and maintenance cost and activity reduction.

Generally, when lamps fail on all assets option of fitting replacement with LED equivalent considered or where more than one lamp fails consideration is given to replace all similar fittings at the same time. This is also the case for the three sports centres operated by Fusion.

### Heating:

2016 Sabien M2G boiler controls installed at Tunbridge Wells Sports Centre and The Weald, to reduce gas use i.e., boiler does not fire up if no demand.

The new Hawkenbury Pavilion incorporated a biomass boiler for its heating and hot water system. The biomass boiler is sized at 75 kW, runs using wood pellet fuel and is sufficient to supply all the heating needs of the building.

### Travel:

Council Travel Plan and car share enabled through 'liftshare' 2012 plus corporate use of the car club 2014

More efficient waste collection rounds and reduction in landfill by new borough waste collection service.

Electric van purchased at North Farm Depot reducing use of fossil fuels. If successful a larger transit van will be purchased. This purchase prompted the installation of a 22kW two vehicle electric vehicle charging post on site

### Other:

The four old cremators were replaced with two new cremators at the Kent and Sussex Crematorium to improve efficiency and included the incorporation of heat recovery technology.

Repair of North Farm vehicle wash water and detergent water recycling system. This will reduce water consumption and waste disposal activities

Royal Victoria Place car park ventilation system replacement. Old system operating 18hrs per day at 100% load replaced by new shunt fans operating background ventilation boosted by CO detectors and fire control. Energy reduction predicted at approximately 90%.

Replacement of paper towels for installation of electric hand driers to all toilet facilities in our properties to reduce paper consumption.

### Housing:

Targeted replacement of old gas boilers with new efficient condensing gas boilers in residential properties, managed by the Council, during end of tenancy refurbishments.

To meet MEES\* 2018 on end of tenancy EPC's we have invested in upgrades to meet the minimum Grade E standard including boiler replacements, insulation, LED lighting installations, glazing replacements and plan to make further improvements as the regulation dictate.

\* Minimum Energy Efficiency Standards (landlord compliance)