



On the Road to Zero

David Thorogood

East Herts:

- Eastern 1/3 of Herts
- 5 main towns - high vehicle ownership
- 3 AQMA's (33 in Herts)
- AQ Moving up the agenda/local action key
- (very) poor EV charging network/only 2 public
- District Plan on hold
- Sustainable Transport T & F Group



DEFRA AQ Grant

- Only district to gain Defra JAQU 2016/17 funding: £164,000
- EV project
- 2x staff-pool cars
- Public e-car car clubs in Hertford and Stortford
- Booking app scheme
- 5 x dual fast chargers (B/S, Hertford(2), SBW, Ware)
- Rapid Charger



Key Points:

- Link to future projects i.e. e-taxi use
- Academic study with University Herts reviewing project/wider opportunities
- Strong statistical data backed submission
- Match funding via car parks
- Won friends for EV and AQ esp. key members/LT
- CAD activity emerged



Purpose of #KeepItClean campaign:

- raise public awareness of air pollution issues to trigger behavioural changes
- ask people to make small changes to help improve air quality, including **anti-idling**.



Clean Air Day 2017 Key campaign messages

- **National messages**

- Take practical actions
- Target children and schools
- Raise awareness of dangers of in-car pollution
- Encourage people to avoid short trips

- **Local key messages**

- Turn your key, be idle free- aimed at parents
- Walk green, #KeepItClean - aimed at children



Working Together

- Initially only social media:
- 98 posts sent out on twitter and FB in June including daily tips on small changes to help reduce air pollution #KeepItClean
- Focus on AQMA's
- But grew - EHC/HCC teamed-up/ more resources/more impact/clear link with road safety
- Evolving budget of £5k
- Monthly Coordination Meetings – built joint working



Campaign poster/flyer



Other campaign materials

Adult T shirts “Turn your key, Be idle free, children’s T shirts “Walk green, #KeepItClean”, Clean Air Day cloud keyrings, bobble heads, campaign ribbons, pencils, A4 posters, A5 leaflets (DS), A3 folded leaflets with cut-out cloud templates for school children



Other awareness channels

- Flyers in Herts libraries
- Posters in East Herts car park notice boards
- Digital displays & leaflets in 19 East Herts GP surgeries
- Digital displays on Highways signs across Herts
- Full Information packs to all EH schools; Members; Town Councils+ comms teams across Herts
- Digital packs to schools outside East Herts





Radio Campaign June 9-22

- Bob FM radio adverts ran Monday-Friday at morning and afternoon school run times
- Heart Harlow radio adverts ran Monday -Friday throughout the day
- Two versions – one before & one after Clean Air Day



Primary schools campaign

- 43(83) schools participated in the county, 14(22) in East Herts
- Schools received an assembly about air pollution to show their students
- Schools in East Herts displayed banners outside their schools asking parents to “Turn your key Be idle free”
- Emailed packs to all Herts schools and used beyond e.g. Thurrock/Epping Forest



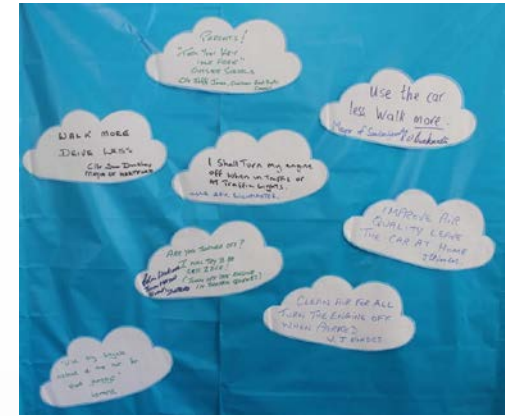
Primary schools campaign

- Children were asked to make a personal pledge on a paper cloud
- On the day children walked to school wearing something green
- School crossing patrol staff across the county wore campaign ribbons



Other Activity on Clean Air week

- Stands at all three county council buildings
- Blue sky pledges made at Hertford and Bishop's Stortford council buildings



Breathe Easy group at Bishop's Stortford



Wallfields reception



Other Activity on Clean Air week

- New Air Quality Action Plan
- A414 subway “wrapping” in Hertford official opening



Walk to Clean Air

Walk to School
Week
21st -25th May 2018

Clean Air Day
21st June 2018



Walk to school week activities



Clean Air Day Activities



Marketing:

Fence Banners



News Story



Assemblies



Schools Grid for Learning

PowerPoint



Highways



Mayors of Hertfordshire



Newsletters



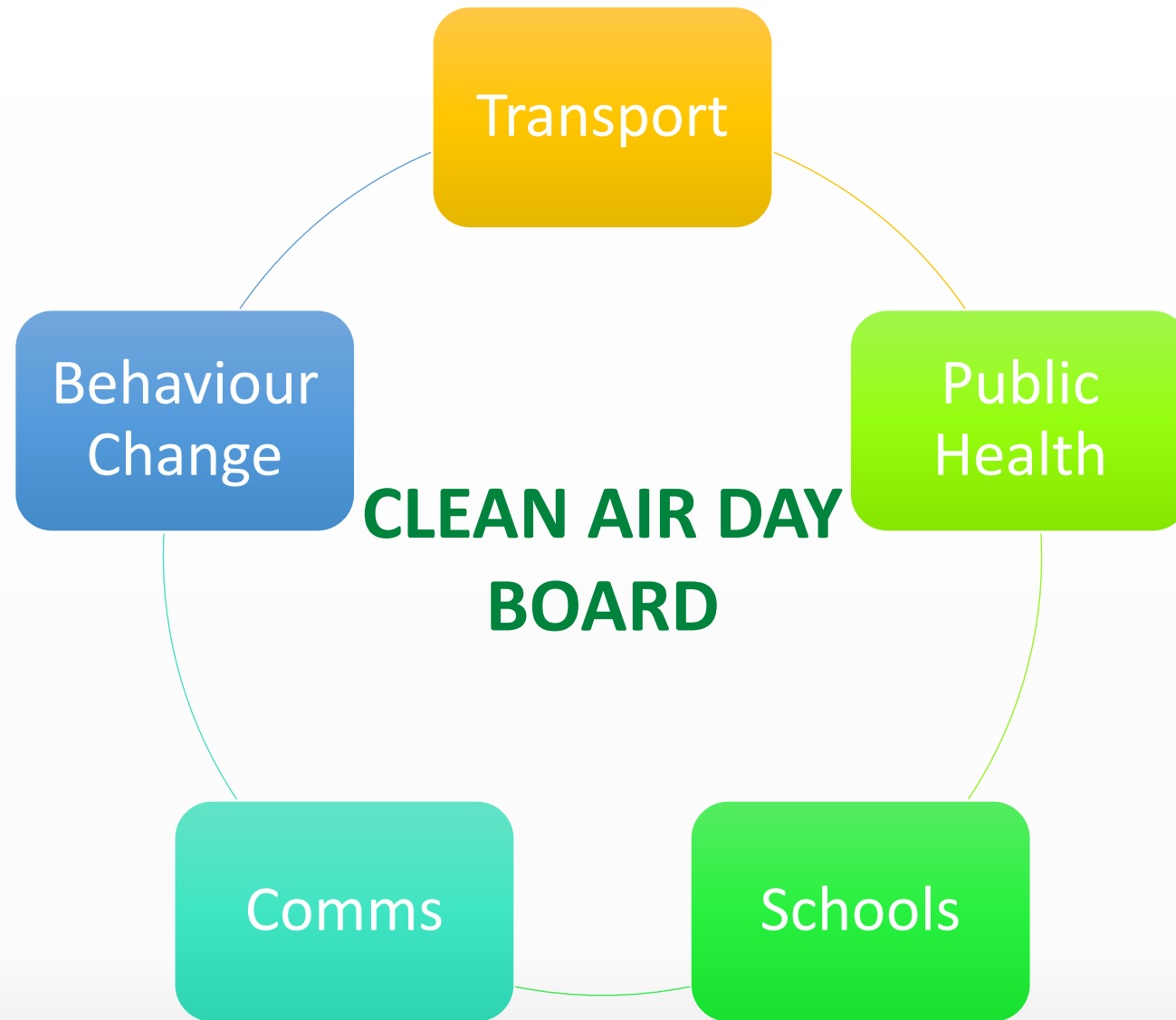
Herts Catering



2018 and 2019

- 2018
 - Clean Air Day Board with working groups
 - Emphasis ongoing behaviour change
 - Survey data/measure success
 - Keen to broaden to more districts
- 2019
 - CAD Every Day
 - 3 Month themes





Lessons Learnt

- CAD Board useful, but initially onerous
- A Champion is key
- Low cost worked well
- Slight social media downturn
- Regular bi-weekly media column
- Led to the possibly unexpected



What's Next?

- Herts 2020 EV taxi scheme+ new policy
- Local Energy East/energy constraints
- New CC action plan
- Many more EV
- New Development /S106 – ‘no’ to ICE/Northgate End



Contact Details:

David Thorogood

Environmental Strategy Manager

david.Thorogood@eastherts.gov.uk

01992 531621



Installing Solar Canopies – Where, How and Why?



Katie Greenhalgh
Energy Projects Manager



Nottingham
City Council

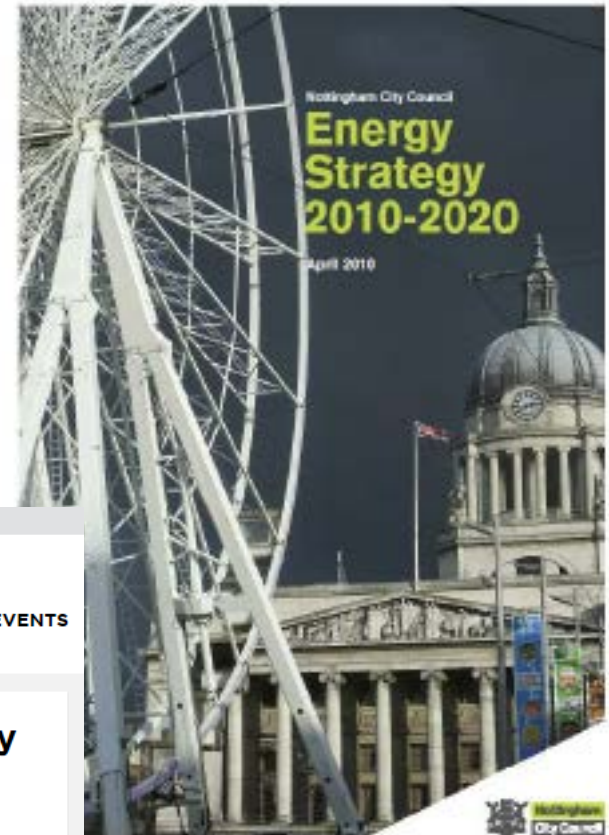
Nottingham Energy Strategy

Target:

26% reduction by 2020 against 2005 levels

Achieved:

33% reduction in 2016



edie.NET

HOME NEWS FEATURES TOPICS JARGON BUSTER ^{NEW!} SUPPLIERS EVENTS

Nottingham smashes climate targets four years early

8 August 2016, source [edie newsroom](#)

Nottingham has surpassed its climate change targets four years early, according to Government data which shows a 33% reduction in the city's carbon emissions since 2005.

Energy Projects Service



Energy Projects Service

- Energy Performance Certificates (domestic and non-domestic)
- Display Energy Certificates
- Air Conditioning Surveys
- EE Monitor (for heat metering and billing)
- Renewable Energy project management
- Energy Efficiency project management
- Environment Management System consultancy
- Energy Saving Opportunity Scheme consultancy

<http://nottmcommercialservices.co.uk/energy-projects-service/>



Nottingham
City Council



The Nottingham Experience

- 4,200 Domestic Installations – Total of 12MWp
- 52 Commercial Sites – Total 1.8MWp
- 2 Large scale solar canopies – Largest publicly owned in the UK and award winning for innovation
- In total over 14MWp of Solar PV in the last 3 years
- Generating an annual income of £1.3M

NCC Solar Canopy Programme

1. Site selection

2. Business Case
3. Internal Approval
4. External Approval
5. Delivery
6. Monitoring and Maintenance

- Orientation
- Shading
- Car park layout
- On site energy user
- Site longevity



NCC Solar Canopy Programme

1. Site selection

2. Business Case

3. Internal Approval

4. External Approval

5. Delivery

6. Monitoring and Maintenance

- Energy savings
- FiT income
- 5% ROI (after borrowing)
- Additional considerations
 - EV charging
 - Shared installation costs
 - Premium Parking
 - Advertising
 - LED lighting
 - Surface protection



NCC Solar Canopy Programme

1. Site selection

2. Business Case

3. Internal Approval

4. External Approval

5. Delivery

6. Monitoring and Maintenance

- Pre approved limits
- Exec Board



NCC Solar Canopy Programme

1. Site selection
2. Business Case
3. Internal Approval

4. External Approval

5. Delivery
6. Monitoring and Maintenance

- DNO grid connection
- Planning
 - Specification
 - Structural details
 - Drainage and surface-water management
 - Grid connection
 - Glint and glare
 - Details of construction
- Consultation

NCC Solar Canopy Programme

1. Site selection
2. Business Case
3. Internal Approval
4. External Approval

5. Delivery

6. Monitoring and Maintenance

- Internal delivery
- Specialist Contractors
- Scheduled maintenance (in business plan)
- Visual displays



Harvey Hadden Sports Village

Total kWp: 67

Area (m²): 400

Estimated generation (kWh): 51,000

Carbon savings (Tonnes): 29



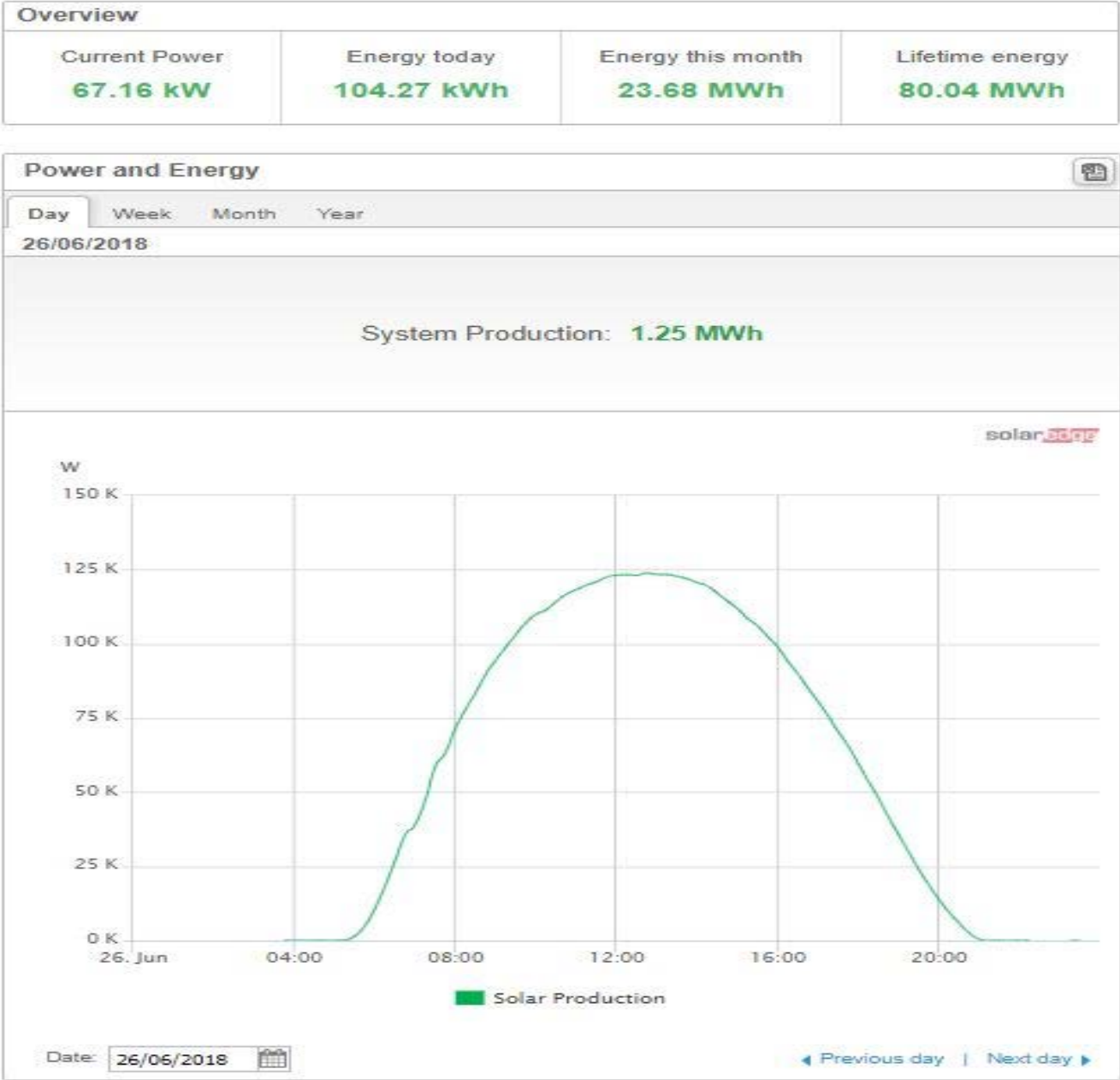


HARVEY HADDEN SPORTS VILLAGE



Harvey Hadden Sports Village

Total kWp: 267 kWp



Ken Martin Leisure Centre

Total kWp: 89

Number of panels: 354

Parking Bays: 41

Estimated generation (kWh): 80,000

Carbon savings (Tonnes): 36





Further Developments

- Further commercial PV and Solar Carport rollout
- PV Framework

Lot number	Category	Estimated Value Range of Call-offs	Approx. value over four years	
			Nottingham City Council	Partner Organisations
1	Supply of Domestic Solar PV Panel Kits and Accessories	£0 - £500k	£3 million	£3 million
2	Supply of Commercial Solar PV Materials and Accessories	£0 - £500k	£10 million	£3 million
3	Supply & Installation of Domestic Solar PV	£0 - £3m	£3 million	£9 million
4	Supply & Installation of Commercial Solar PV	£0 - £5m	£7 million	£10 million
5	Installation of Solar PV	£0 - £100k	£4 million	£2 million
6	Design of Specialist Solar PV	£0 - £100k	£0.5 million	£0.5 million
Total			£27.5 million	£27.5 million



Canopy Impressions



Further Developments

- Battery Trial
- EV charge point rollout through Go Ultra Low
<http://goultralownottingham.org.uk/the-programme/public-charging-infrastructure-network/>
- Vehicle to Grid trial through Interreg funding:
<http://www.nweurope.eu/projects/project-search/cleanmobilenenergy-clean-mobility-and-energy-for-cities/>
- PPA



Nottingham
City Council



Katie Greenhalgh – Energy Projects Manager

katie.greenhalgh@nottinghamcity.gov.uk

07904383073

@Kt_Greenhalgh @nttmenergycity



Nottingham
City Council

APSE Renewables and Climate Change Advisory Group (Southern Region)

16 October 2018
Bristol



Energy Update

Stephen Cirell



Introduction

- The power of information
- Consider the wider picture
- See what can be achieved on the delivery side
- Start with a strong strategy



A New Phase of Understanding

- Local authorities understanding of energy
- Benefits of a strategic approach
- Financial and non financial benefits



A New Energy Strategy

- Energy is a key corporate issue
- Every local authority should be clear what it wants
- What are the drivers
- What do you want to achieve?



Policy Developments

- The legislative base
- The Clean Growth Strategy and the Industrial Strategy
- The direction of travel
- Miscellaneous areas of policy



Developments in Renewable Energy

- Solar PV still the most popular
- Wind energy will be back
- Making the business case work
- Analyse your assets



Developing a New Approach to Energy

- APSE Energy report
- The three areas of generation, distribution and supply
- Which do you want?



The Strategy

- Generation = income generation
- Distribution = economic development
- Supply = social gain eg fuel poverty



Energy Services Companies

- Why is there a growth in ESCOs?
- The options for local authorities
- What will work for you?



The Options

- Fully licensed company
- White label / white label +
- Licence lite
- Joint venture
- Single purpose ESCO, eg heat networks



How to Go About It

- Consider the options and what the authority wants
- Develop a strategy
- Form an evidence base
- Choose a realistic time frame



Who Has Done What?

- Nottingham and Bristol, Portsmouth, Swansea, NEPO and Borderlands
- Our Power and the Scottish Government
- OVO white labels
- Licence lite
- Miscellaneous examples



Conclusions

- This is an interesting time
- Local authorities are getting there
- There is lots going on in the private sector and we can learn from this
- It takes time, so move it on!



Energy Update

Stephen Cirell

