The NSW Waste Avoidance and Resource Recovery Strategy 2014-2021 objectives and targets are:

1. **Avoid and reduce waste generation**
   - By 2021–22, reduce the rate of waste generation per capita.

2. **Increase recycling**
   - By 2021–22, increase recycling rates for:
     - municipal solid waste from 52% (in 2010–11) to 70%;
     - commercial and industrial waste from 57% (in 2010–11) to 70%; and
     - construction and demolition waste from 75% (in 2010–11) to 80%.

3. **Divert more waste from landfill**
   - By 2021–22, increase the waste diverted from landfill from 63% (in 2010–11) to 75%.

4. **Manage problem wastes better**
   - By 2021–22, establish or upgrade 86 drop-off facilities or services for managing household problem wastes state-wide.

Existing benchmark figures are currently being established so as progress towards the NSW Waste Avoidance and Resource Recovery Strategy targets may be measured.

Following a successful grant application with the NSW Environment Protection Authority Council constructed a Community Recycling Centre at the Glen Innes Landfill. The objective of the Community Recycling Centre was to provide a facility that can be used by residents to safely dispose of problem wastes and to foster a culture of environmental sustainability for the local community. Through the construction and promotion of the Community Recycling Centre, Council is able to promote the recycling of problem wastes in addition to the already operating Materials Recovery Facility that is located on the site.

Council has been one of the founding members of Northern Inland Regional Waste since its inception in 1996 and continues to support. Council aligns its waste management operations with the Regional Waste Strategy and Action plan that was developed through Northern Inland Regional Waste and member Councils.
To encourage alternative energy opportunities.

Support the NSW Energy Efficiency Skills Program and advocate for local businesses to access grant funding, such as the Climate Change Fund, to stimulate growth in the clean-energy industry.

Actions in the Economic Development Strategy to encourage alternative energy suppliers, particularly wind farms to establish themselves in Glen Innes; Promote the availability of grant funding to local businesses to stimulate growth in the clean-energy industry.

DDRSS

DECCW, Industry and Investment NSW; Federal Govt; RDA.

Feedback from community survey demonstrates increase in take up of energy efficiency measures by the community and businesses.

Council staff participated in training provided by NSW Energy Efficiency Skills program and the Office of Environment and Heritage. This was primarily to do with energy efficient lighting and air conditioning where Council can replace lights with LED’s and regular maintenance of air conditioning units in Council buildings.

Glen Innes Severn region is becoming a Renewable Energy Hub with White Rock Wind Farm under construction currently with NSW Government approval granted for up to 119 wind turbines which will result in up to 300MW of renewable electricity being generated. This project will also include a 20MW solar photovoltaic system being installed to work in conjunction with wind turbines.

There are another two (2) major wind farm developments also proposed and NSW Government approved for the Glen Innes Severn Local Government Area (LGA), being the Sapphire Wind Farm and the Glen Innes Wind Farm.
Council has actively participated in alternative energy supplies for Council infrastructure and assets. Council has undertaken alternate energy installations, being photovoltaic, on several Council buildings which have made significant energy savings and cost savings. These solar installations include:

- 40kw installed on the Library Learning Centre in 2013;
- 12kw installed on Life Choices-Support Services building in 2014;
- 12kw installed at the Glen Innes Sewerage Treatment Works 2014;
- 11.75kw installed on the Church Street Administration office 2014; and
- 90kw installed at the Off-Stream Water Storage site in 2015.

This is making an energy saving to Council of 227,906kw/h annually, which equates to in excess of $100,000 in cost savings annually while reducing Council’s carbon emissions by approximately 214 tonnes annually.

There are another two (2) solar systems being installed on Council buildings in 2016-17. These buildings are the Council Workshop and the Materials Recycling Facility at the Glen Innes Landfill.
The Glen Innes Severn Local Environmental Plan 2012 was reviewed in 2014 and again in 2015 with a Planning proposal being approved by NSW Planning for amendments to the LEP to be made. The amendments included:

- Minor mapping amendments and corrections;
- Amendment to Land Use tables for “Farm buildings” – to be permitted with consent in the RU1 Primary Production Zone. “Farm buildings” were permitted without consent, however there were no standards which related to size, location or height of any such structure;
- Modification of the Dwelling Opportunity Maps as additional parcels of land had been identified as having a dwelling opportunity;
- Changes to the Land Use table for Village RU5 zone to prohibit animal boarding and breeding establishments;
- Changes to provide greater flexibility in relation to the subdivision of land zoned RU1 through permitting boundary adjustment subdivisions where one (1) or more allotments involved do not meet the minimum lot size specified for the subdivision of the land; and
- The rezoning of land from General Residential to General Industrial land.

Council secured funding from Local Government NSW (LGNSW) of $50,000 which was primarily used for the control of environmental woody weeds on Council roadsides. Weeds such as Hawthorne, Sweet Briar and Broad Leaved privet were treated. This work was conducted by Council’s contract weed sprayers and this component of the project was managed by Council’s Weeds Officer at the time, Dave Nixon.

The second component of this project was to undertake a small planting to form a bio-link between two (2) large areas of natural, privately owned vegetation in the Wellingrove, Kings Plains area. This planting has been incredibly successful with a 600 metre strip planted along the Kings Plains Road and the seedlings have flourished. Council received an award and recognition for this project from LGNSW for Roadside Environment Management.
Council secured funding from the Northern Tablelands Local Land Services (NTLLS) in 2014 to undertake environmental weed control in Council’s road reserves. The funding was for the amount of $140,000 and the project was divided into three (3) main components.

1. A direct seeding trial was undertaken along selected roadsides to see how this type of revegetation work could be used in Council’s roadsides. This component of the project was primarily funded by NTLLS which provided the native seed and the direct seed work, and was undertaken by Steve Fields Environmental Services. Council only funded the site preparation for this trial which involved slashing and chemically treating the grasses so the direct seeding machine would work.

To date this trial has not been a great success primarily due to the depth the seed was planted by the contractor and also the challenging climatic conditions experienced at the time, however important data has been obtained from this trial and NTLLS staff are satisfied with the result.
Direct Seeder working along Bullock Mountain Road

2. Council has undertaken chemical spraying of roadsides where predominantly environmental, but also some noxious weeds, have been identified. Council staff have undertaken this work using Council’s own spray unit and trained staff, and the focus has been on grass weeds such as Whisky Grass.

3. For the third component of this project, Council provided $30,000 to GLENRAC to provide funding for landholders to chemically treat a buffer zone of 200m from the roadsides that are classified as High and Medium Conservation Value. This is to prevent the spread of weeds both from Council land into private property and also from private property back into Council roadsides environments.

There have been 18 properties treated to date with additional properties expected to be treated during 2016-17.

<table>
<thead>
<tr>
<th>Code</th>
<th>Objective</th>
<th>Strategy</th>
<th>Delivery Program Actions 2013-17</th>
<th>Responsible</th>
<th>Partners</th>
<th>Performance Measure 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS 4.2</td>
<td>To involve members of the community in caring for the natural environment.</td>
<td>Continue to liaise with Glenrac for delivery of community environmental projects.</td>
<td>Community education program undertaken to prevent the spread of noxious weeds.</td>
<td>DDRSS</td>
<td>Volunteer Groups; Environmental Groups; Glenrac</td>
<td>Outcomes from the Glenrac Strategic Plan 2010/15 are achieved.</td>
</tr>
</tbody>
</table>

Council actively participates with GLENRAC by having representatives attend GLENRAC board meetings. Council has participated in a number of programs and projects including:

- Participating in the development of the GLENRAC five (5) year Strategic Plan;
- Partnering with GLENRAC in running training programs such as Indian Myna Bird Control Program in 2014 and the Feral Cat Reduction Program which is running currently with Council’s Rangers providing training at workshops held by GLENRAC.
Council has participated in a number of Climate Change workshops which were used to inform Council staff about the modelling which is being used to predict any impacts that may affect Council operations. One of these workshops was provided by Council’s Insurance Company StateCover and was held at Glen Innes for senior Council staff.

Four staff members from Council travelled to Inverell to attend a Climate Change workshop provided by Office of Environment and Heritage (OEH) staff members. This workshop was primarily held to provide training to understand the modelling and predictions for climate change in our region. Council staff also participated in the New England North West Enabling Regional Adaption workshop which was provided by the NTLLS.

Council has provided leadership for sustainability within the Glen Innes Severn LGA in a number of ways, including:

- The installation of five (5) photovoltaic systems on Council buildings adding up to a total of 165.75kw;
- The installation of LED lights when old fluorescent lights need to be replaced in Council buildings;
- Participation in a regional project to convert all street lights to LED; and
- The implementation of the Off-Stream Water Storage project during 2015. This project involved the development of the two (2) dams at the Glen Innes Aggregates site, the installation of four (4) pumps to deliver the water to the Water Treatment Plant and a 90kw solar system to help reduce the costs of running the pumps. This has created a saving of over $80,000 a year in electricity costs. Council also received an award for this project for Environmental Sustainability from LGNSW in 2016.
12kw Photovoltaic installation on Life Choices-Support Services Building

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</thead>
<tbody>
<tr>
<td>ES 5.3</td>
<td>To have a stormwater management plan.</td>
<td>Review and implement stormwater management plan.</td>
<td>Stormwater management plan reviewed and implemented.</td>
<td>DDRSS</td>
<td></td>
<td>Four year measures in the stormwater management plan are achieved.</td>
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</table>

Council resolved not to have a Stormwater Management Plan, but instead pursued a drainage charge which is included on the annual rates notice of residential residences.

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<th>Performance Measure 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 5.4</td>
<td>To have a floodplain management plan.</td>
<td>Implement and review the floodplain management plan.</td>
<td>Floodplain management plan developed, adopted and implemented.</td>
<td>DIS</td>
<td></td>
<td>Four year measures in the floodplain management plan are achieved.</td>
</tr>
</tbody>
</table>

Council is expecting to receive the draft of this Floodplain Management Plan in 2016-17. Council has been waiting approximately 18 months for the consultant to provide this draft. This project is funded largely by the NSW Government.