

# The Solar Mapping Project

## Key Code



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Submitted by  
Bathurst Sustainable Development (BSD)

In Partnership with

Eco Action Community Funding Program, the City of Bathurst and *Eco Perth*  
and with the kind assistance of  
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## The Key Code

This key code was developed by BSD to provide citizens and viewers of the Bathurst Solar Map and Solar Mapping Project documents with explanations and details of the various aspects of this project. At the end of the Key Code, is a listing of 450 buildings which were assessed for their Solar Suitability, but which, for various variables, were not in our PID file and so are listed at the end of the Key Code Document, instead of being listed in the Solar Assessment File. Since they were not listed in the Solar Assessment file, they would not have been linked to the properties PID number and so would not have been merged into the GIS. Therefore, these properties do not show on the Solar Map with any assigned solar classification or color and are shown as white. If you see on the Solar Map, that your property has not been assigned any solar classification, please see the end of the Key Code document and search for your property there. Properties that are vacant land are listed as white on the Solar Map. Properties that were not visible from the road or had no visible civic number are also shown as white on the Solar Map.

### Items Assessed:

**Orientation:** Optimal orientation for receiving adequate solar radiation from the sun in order to receive enough radiation from the sun to charge roof or wall mounted solar panels for a minimum of 4 hours per day. Required orientation for solar energy is due south. While South west or South east can be acceptable, the intensity and duration of hours of adequate solar radiation to provide optimum solar charge to your solar panels can be reduced.

**Roof Condition:** It is advised, that before a property owners makes the investment of installing solar panels on their roof or exterior wall, that the homeowner make any necessary repairs to the roof or wall of the building be completed prior to installation of the panels. If the shingles are curled, if there is moss on the roof if there are gaps in shingles, or large patched areas, if the roof is sagging or damaged, if the roof shows signs of wood rot, if the roof is not completed these properties were classified as Yellow meaning that the building is not currently ready to install solar panel but could be upgraded to a Green classification and be ready to install solar panels if this upgrading is completed.

## Classifications

- **Green**- ready to install solar panels, you have space on your roof, you have the right orientation, the roof and shingles are in good condition, you have no issue with shading interfering with the sun shinning on your panel. Green also means that we did not identify any items needing to be upgraded on your building prior to roof mounting solar panels.

- **Yellow**- means that we identified from the curbside that your roof was in need of some repairs/upgrading before installing solar panels. There are also several other items we considered which may have made us give the property a Yellow classification such the roof being flat or having many dormers or being of an unusual shape meaning we could not see any space for the panels from the road but you should measure it exactly to make certain there is room for panels.
- **Red**-Properties classified as Red were identified to be unsuitable for solar energy mostly due to poor orientation, heavy shading or obvious lack of space for solar panels.

**Flat:** All properties with a flat roof were classified as Yellow since flat roofs would need to have a roof mounted frame installed onto the roof in order to raise up the panel to provide it with the optimum angle to obtain adequate solar rays.

**Roof Dormers-** Roof dormers are becoming more frequent in home design. However, they also pose a spacing challenge for positioning solar panels. Any buildings that we assessed that had several dormers on the roof were classified as Yellow meaning that we were not able to visually confirm from the curbside that there was enough space on the roof for solar panels and that the homeowner would need to precisely measure the areas of the roof to determine if space is available for the panels.

**No Visible Civic Number** on the exterior of the house so that we could identify the Civic Address of the property.

**Properties not Assessed:** Approximately 9 % of the buildings and houses in the City were not assessed and did not receive any classification for the following possible reasons:

- Building or house was **not visible from the road**- BSD staff did not go onto any private property or into long private driveways to conduct the assessments. If it was not clearly visible enough for us to both see the condition of the roof and to read the civic number on the building then the property was not assessed.
- Building or house was **not found**- some properties seem to be missing. This could be because a building was torn down, or moved.
- Street had no **identification** signage
- BSD staff was not assured their **safety** to go near enough to the house to read the civic number and or assess the roof condition due to dogs who appeared to be unfriendly, construction, or other items blocking the view of the building
- Property had **no visible building** and was a vacant lot
- Property was **not listed** in our Property Identification file (PID) as it was provided to us by Service NB.

## Finding Your Property in the Solar Assessment File

All properties that had buildings that are listed in the Solar Assessment File are listed by Civic Number and Street, Route or Highway only. Every parcel of land in the Province, for tax purposes, ownership registration etc...is assigned by Service New Brunswick a Property Identification Number (PID number). This information is what we have linked the solar curbside assessment data to and then merged it with our digital mapping GIS data base to produce a layer of information which becomes visible in the Bathurst Solar Map. For the purpose of this project, in the Solar Assessment File and Key Code, no identifying information concerning the ownership of each property, or the properties PID number have been released to the public as per the BSD Data Agreement with Service NB and the province of NB.

Several interesting issues became apparent to us as we conducted the City wide assessments such as the fact that the SNB PID file as we received it from SNB still has the listing of many properties classified according to the Rural Route or Provincial Highway method that the building is on and that the SNB file has not been updated since the new 911 requirement of properties being listed according to their Civic numbers. Therefore, some areas and streets in the City were not listed in the PID file according to the "local" street name; instead they were listed according to their former routes. If you cannot find your house or building listed among the other buildings on your street, look in the following locations in the file or this list of items may provide an explanation for you of why your property was not assessed or where in the Curbside assessment File you may find your Civic building address and solar assessment. At the end of this document is a listing of all properties not in our file that we identified and assessed in addition to the 3785 properties assessed and listed in the Solar Assessment File.

Some issue that came up during the curbside assessment and entering the data into our GIS system are:

1. St Peter Ave buildings may be listed on Rte 134
2. Some streets were not found
3. There are new streets not in our file
4. There was no signage to identify the Little Lane off of Allison Street
5. Oulton Ave- we have data but not in our PID file, see the Key Code
6. Parts of King Ave houses not are not in the PID file, see the Key Code
7. Middle River is not in the City of Bathurst city limits, it therefore was not assessed
8. Barthelotte street was not in our PID file, see the Key Code
9. O'Brien Street was not in our PID file, see the Key Code
10. In our file, King Ave ends at 20740643, see the Key Code for other Murray Ave. houses
11. Murray Ave: we have data but the street was listed as route 134 in our file
12. Brown Street- there were no visible numbers on the three houses
13. Some houses on Picot and Coffyn Crescent were not listed in our PID file, see the Key Code
14. Civic numbers on Lynch in our file do not match the actual house numbers, see the Key Code
15. Cunard Street is not in our file – the only building is the Federal Building, see the Key Code
16. Gray Street, the house numbers do not match the civic numbers in the PID file, see the Key Code
17. Gray street not in our PID file, see the Key Code
18. Varily- 475 missing, see the Key Code
19. Queen- 660 missing, See the Key Code

20. Some civic numbers were missing for new houses in the Gowan Brae subdivision, see the Key Code
21. Route 8 is controlled access highway- not many records
22. Route 11 is also Bridge Street
23. Route 134 is also St Peter Ave, Cunard St., along Murray and, Miramichi Ave.
24. Route 180 is also Vanier Blvd.
25. Route 315 is also Sunset Drive heading towards North Tetagouche
26. Route 430 is also King Ave
27. Our file was missing 745 to 996 Murray, these properties are listed in the Key Code
28. Subdivision of land since the latest PID file data- now instead of one parcel of vacant land or one house – there now are three other separate parcels of land, with separate owners and four houses.
29. The mapping was linked to the properties Property Identification Number (PID Number).
30. The Solar Assessment File document lists the property by its Civic number only.
31. If no civic number was evident, and it was a business, the property in the Key Code was listed by its locally known commercial name.
32. Houses with civic # 902, 960, 984, 996, 645, 530, 445, 460 on Murray Ave. are listed in the Key Code
33. Miramichi Ave.- Houses with the civic # 1171, 1169, 1131, 1141 do not correspond to the listings in the PID file either to Miramichi Ave or to Rte 134, they are now listed in the Key Code.
34. Densmore St not in PID file, see the Key Code
35. Lilac Lane homes are listed on Carron Drive
36. Oulton St has only 4 digit civic numbers on the PID file but our visual street assessment revealed it also has 3 or 2 digit civic #
37. Picot and Coffyn have some civic # that are not listed on either Streets, see the Key Code.
38. Assaff is not in the PID file, see the Key Code
39. St Peter /RR134 we have data that doesn't correspond to either St Peter or RR 134, see the Key Code
40. Charles Street is not in our PID file, see the key code
41. New streets are being made every day and land subdivided, see the Key Code
42. Properties that are vacant land are listed as white on the Solar Map.
43. Properties that were not visible from the road or had no visible civic number are also shown as white on the Solar Map.

### **Additional Properties Assessed**

**G means = Green ready for solar**

**Y means = some things need to be considered before installing solar**

**R= not suitable for solar**

**\*Roof= roof needs repairs before installing solar panels**

**\*1 = 1 story building**

**\*F= Flat roof, needs angled frame to mount solar panels in order to tilt them**

**\*O- Orientation**

**\*Shade= building has too much shade**

**\*2= two story building**

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**Additional Properties Assessed**

<b><u>Street</u></b>	<b><u>Civic</u></b>	<b><u>Assessment</u></b>
Morrison	1660	G1
Pleasant	261	R 2
	291	G 2
	289	G 2
	251	G 2
Ocean Ridge	1257	G2
	1269	G1
	1265	Y 1 FLAT
	1285	R 2 SHADE
	1295	Y 2 SHADE/ROOF
	1305	Y 2 ROOF
Westwood	1162	G1
	1189	G1
Lynch	255	G 1
	265	R 2 SHADE
	275	R 2 SHADE
Centennial	965	R O 1
	892	R 1 SHADE
	898	G 1
	899	RO 1 SHADE
	1292	G 1

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
Miramichi	1229	Y FLAT
	2691	Y2 ROOF
	2750	G 2
	2744	G 1
	2479	G 1
Densmore	405	G 2
	410	G 2
Wellington	1900	RO 1 SPACE
Palmer	1960	RO 2
Young	120	RO
	112	R O
	115	R O
	107	Y 2 ROOF
	104	R O
	99	R O
	89	R O
	88	R O
	80	R O
	61	Y
	41	G
Aubie	1377	R O

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
	1375	R O
	1380	Y 2 ROOF
Victoria	1006/1024	R O 1
	1030/1036	G 1
	57	R O 2
	61	R O 2
	65	R O 2
	64	R O 2
	2152	R O 2
	1171	R O 1
St Simon	575	G 1
Picot	1055	G 1
	955	G 1
	935	G 1
	903	Y 1 ROOF
	895/893	R O 1
	885	R O 1
	865	R O 1
	860	R O 1
	845	R O 1
	825	R O 1



<b>Street</b>	<b>Civic</b>	<b>Assessment</b>
Coffyn	850	G 1
	790	R O 1
	805	R O 1
	795	G 1
	780	R O 1
	772/773	R O 1
	765	R O 1
	763	R O 1
	755/753	R O 1
	750	R O 2
	701/707	G 1
	734/720	G 1
	697/691	G 1
St.Paul	671	RO 1 NO SPACE
	588	RO
St. Camille	666	Y 2 SHADE
Grange	890/870	G 2
	841/881	G 2
	858/848	G 2
Assaff	702/730	R O
	734/756	R O

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
	741/743	G 2
	747/749	G 2
Laurier	444	Y 2 ROOF
Vallee Lourdes	1970/1968	G 2
	1760	G 1
Lindsay	9	Y 3 FLAT
St Peter/RR134	2130	G 2
	1327	G 1
	2525	Y2 FLAT
	1400	Y 2 FLAT
	430	Y ROOF
	294	RO2
Douglas	355	G 3
Kennock Van	2081	Y 2
	1997	R O 2
Nicholas Denys	1120	G 1
Youghall	1086	RO
	1290	G
St Andrew	361	G 2
	302/304/306	R O 2
Schryer	1738	R O 1

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
	1790	R 1 SHADE
McLean	1814	G 1
	1822	R 1 SHADE
Packard	1203	G 1
	1165	G 1
	1135	R O 1
	1125	R O 1
	1046	Y 2 ROOF
Popular	Landfill	R O 2
	Warehouse	R O 1
	Forestry	G 2
	1 st Property	G 1
Allard	1035	G 1
Riverside	Water Waste Treatment	Y FLAT
Foley	775	G 2
Hall	925	Y FLAT
	CanPar	G 1
Gray	165	Y 2 ROOF
	185	R 2 SPACE
	175	Y 2 ROOF
Queen	660	G 1

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
	655	R O 2
	700	R O
Varrily	475	R O 1
	395	G 1
Young	1295	Y 2 ROOF
Grandview	915	G 1
	995	R O 2
Johnson	1260	G 1
Edgewood	1207	R 1 S
	1211	R O 1
Vanier/RR 180	1218	G 2
Vale	1601	R O 1
	1611	R O 2
Alexander	1502	G 1
	1515	G 1
	1510	Y 2 ROOF
	1534	R O 1 SPACE
	1554	G 2
Msgr. Godin	894/858	R O 1
Sycamore	904	G 1
	1630	R O 1

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
	1009	G 2
Rogers	810/812	R O 1
	814/816	R O 1
	830	R O 2
	836/838	G 1
	835/837	R O
Tamarack	1055	R O 2
	1025	Y 2 SHADE
	1080	RO 2 SHADE
Riverbank	1745	R O 1
Daniel	1278	G 2
	1275	G 2
	1258	G 2
	1061	Y ROOF
	975	G 2
Ulric	1244	Y 2 SHADE
	1242	Y 2 SHADE
O'Brian	555	G 2
	535	RO 1
Sunset	1570	R O 2
	635	Y ROOF

<b>Street</b>	<b>Civic</b>	<b>Assessment</b>
	545	Y 2 ROOF
	1446	Y ROOF
	1165	R SHADE
	540	G2
Van Tassell	1182	R O 1
Highland	1174	R O 2
Vincent	1106	G 1
Strout	520	Y SPACE
	340	Y SHADE
Spring	313	G 2
Lakeside	265	R O
Garden	560	R 2 SHADE
	615	G 2
	624	R O
	676/682	Y FLAT
Hillside	257	R O 1
	216	G 1
	201	Y SLOPE

<b>Street</b>	<b>Civic</b>	<b>Assessment</b>
Princess	485	G 2
	375	G 1
Veniot	1120	R SHADE 1
Driftwood	1280	R O 2
Maria	1570	G 1
Neil	151	G 1
	125	G 2
	105	R O
Cote Bleu	156	G 2
	39	G 2
	36	G 1
	103	G 2
St Adele	228	Y 1 ROOF
	252	G 1
	228	G 1
	210	G 1
Roche	203	RO 2
	223	Y 1
	255	G 2
	280	R 1 SHADE

<b>Street</b>	<b>Civic</b>	<b>Assessment</b>
Model	1149	G 2
Helen	880	G 2
	861	G 2
Goodview	1845	Y ROOF
Hinton	1917	R O
Evangeline	1400	Y FLAT
	595	R 2 SHADE
	396	G 1
	491	G 2
Chaleur	435/436	G 2
	465/467	R ROOF
	610/658	G 2
Victoria	635	G 1
	650/700	R O
	705/715	R O 1
	920	G 1
	922	G 1
	926	G 1



<b><u>Street</u></b>	<b><u>Civic</u></b>	<b><u>Assessment</u></b>
Westbrook	1186	R O
	1196	G 2
	1190	R O
	1116	G 2
	1106/1100	G 2
	1096/1090	G 1
Midway	575	G 2
Squire Green	700	G 2
	715	G 2
	745	G 2
	750	G 2
	780	G 2
	805	G 2
	800	G 2
St George	835	G 2
	150	Y FLAT
	201	Y FLAT
Furlotte	1580	Y 1 ROOF
	1590	Y 1 ROOF
	1606	Y 1 ROOF

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
Main	159	Y 3 FLAT
Tondreau	555	G 2
Homestead	1165	G 2
	1162	G 2
Assumption	738	G 1
	720	G 2
	725	G 1
Mount Carmel	750	R O
	797	Y 1 ROOF
	1200	G 1
Eaton	1435	Y 1
Tower Hill	1030	Y 1 ROOF
Chalmers	610	G 1
	603	G 1
	607/611	Y 2 ROOF
	615	Y 3 FLAT
Desilva	25	G 1
Queen Elizabeth	1622	RO ROOF
	1655	G 2
	1675	G 2
	2140	Y 1 ROOF
	2195	G 2

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
Queen Elizabeth	2254	Y 1 FLAT
	2510	G 1
	2524	G 2
Smith	1125	R O
St Patrick	150	R O SPACE
	164	G 2
Riverside	884	Y 1
	869	R O
	839	Y 2 ROOF SPACE
Basin	150	G 3
	88	Y 2
	86	G 2
	25	G 2
	10	G 2
St Anne	2185	R O 2
	2175	G 1
	2155	R O 2
	1955	R O 1
	775	R O
	657/658	R O
	645	R O
	545/543	G 1

<u>Street</u>	<u>Civic</u>	<u>Assessment</u>
St Anne	345	G 1
	325	R O
Raymond	475	R O 1
	480	Y 1 ROOF
	420	R O 1
Barthelotte	585	G 2
	575	Y ROOF
	565	Y ROOF

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